Sarnafill SDS 2022

- 1. Drainage Panels
- 2. G459 flashing
- 3. SARNAFIL G476
- 4. Sand coated walkway
- 5. Sarnaclad Metal- nonhazardous
- 6. Sarnacol 2163 board adhesive part 1
- 6.1 Sarnacol 2163 board adhesive part 2
- 7. Sarnacol 2170 membrane adhesive
- 8. Sarnacol 2170 vc membrane adhesive
- 9. Sarnacol 2121 membrane adhesive
- 10. Sarnafelt
- 11. Sarnafiller part A
- 12. Sarnafiller part B
- 13. Sarnasolv Cleaner
- 14. Sarnatape
- 15. Sarnatherm Styrene insulation
- 16. Sarnatherm insulation ISO- nonhazardous
- 17. Sarnatrated Walkway-non hazardous
- 18. Sarnavap self-adhered primer
- 19. Sarnavap self-adhered primer vc
- 20. Sarnavap self-adhered primer wb
- 21. Sikaflex 1-A
- 22. Sikaflex 11FC
- 23. Sikaflex primer 449-203
- 24. Sikaplan membrane
- 25. Stabond U148A membrane adhesive
- 26. surface conditioner 150

Sika Sarnafil Inc. 100 Dan Road Canton, MA 02021-2842

Drainage Panels

MSISFILE: DPANEL PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

Material Safety Information Sheet

(According to 29 CFR 1910.1200(5)(v)(c) this material is an article. No labeling or MSDS reporting is required.)

SECTION 1 Product and Company Identification

Sika Sarnafil Inc.

TRADE NAME: Drainage Panels

SYNONYMS:

MANUFACTURER: ADDRESS:

100 Dan Road, Canton, MA 02021-2842

EMERGENCY NUMBERS:

CHEMTRAC Transportation Emergency (24 hr.) (800)

MSDS and Product Information (M-F, 8:30am -5:00pm EST)

(800) 424-9300 (800) 451-2504

SECTION 2 Information on Hazardous Ingredients

This material is considered an article according to 29 CFR 1910.1200(5)(v)(c). An article is by definition a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

An MSDS is required only for chemicals in products that are hazardous as defined by the OSHA standard 29 CFR 1910.1200. This Material Safety Information Sheet is provided in lieu of a Material safety Data Sheet.

SECTION 3 Hazards Identification

EYES: N/A

SKIN: N/A

INHALATION: Dusts are considered nuisance dusts.

INGESTION: N/A

SYMPTOMS: None known.

SECTION 4 First Aid Measures

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical

attention.

SKIN: Immediately remove contaminated clothing. Flush affected area with large amounts of water for at

least 15 minutes. Use mild soap if available. Get medical attention.

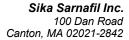
INHALATION: Remove to fresh air. If breathing is stopped, apply artificial respiration. If breathing is difficult, give

oxygen provided a qualified operator is available. Get medical attention for irritation or any other

symptom.

INGESTION: If swallowed, rinse mouth with water. ONLY induce vomiting at the instruction of a physician.

Never give anything by mouth to an unconscious person.





Drainage Panels

MSISFILE: DPANEL PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

SECTION 5 Fire Fighting Measures

FLASH POINT (F/ C) LEL (volume %) UEL (volume %)

N/A N/A N/A

Extinguishing Media: Alcohol resistant foam, dry chemical, carbon dioxide, water-spray.

Fire Fighting Procedures: Wear a self-contained breathing apparatus with full face-piece and full protective clothing.

Unusual Hazards: None.

Combustion Products: May form carbon dioxide, carbon monoxide, and/or various hydrocarbons.

SECTION 6 Accidental Release Measures

Use normal cleanup procedure for solid materials.

SECTION 7 Handling and Storage

Store material away from heat and flame.

SECTION 8 Exposure Controls / Personal Protection

Engineering Controls: Mechanical ventilation may be necessary if working with the product in enclosed areas due

to high dust levels from grinding, sawing, and fabrication activities.

Personal Protective Equipment:

EYES: Safety glasses or goggles. Consult your safety representative.

SKIN: Wear clothing suitable to prevent skin contact.

RESPIRATORY: Not required for properly ventilated areas. If high concentrations of dust should

accumulate, use a NIOSH approved disposable dust respirator (3M model 8210, 8710, or

in high humidity environments Model 9900).

Exposure Guidelines:

CHEMICAL OSHA PEL ACGIH TLV

Not established. N/A N/A

PEL = Permissible Exposure Limits TWA = Time Weighted Average (8 hr.)
TLV = Threshold Limit Value STEL = Short Term Exposure Limit (15 min.)



Drainage Panels

MSISFILE: DPANEL PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

SECTION 9 Physical and Chemical Properties

APPEARANCE Black Polymer with Light Grey Polyester Non-Woven

Fabric Net

ODOR: Odorless

BOILING POINT (@ 760 mm Hg): N/A

SPECIFIC GRAVITY: N/A

LIQUID DENSITY: N/A

SOLUBILITY IN WATER: Insoluble

% VOLATILE VOLUME: N/A

EVAPORATION RATE (N-Butyl Acetate=1): N/A

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (air=1): N/A

SECTION 10 Stability and Reactivity

CONDITIONS TO AVOID:

Stable under normal conditions.

INCOMPATABILITY WITH OTHER MATERIALS:

N/A

HAZARDOUS DECOMPOSITION PRODUCTS:

May form carbon dioxide and carbon monoxide.

HAZARDOUS POLYMERIZATION:

Will NOT undergo hazardous polymerization.

SECTION 11 Toxicological Information

Toxicological information is not available.

SECTION 12 Ecological Information

Ecological information is not available.

SECTION 13 Disposal Considerations

Dispose in accordance with applicable Federal, State, and Local regulations. Product use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter RCRA classification and the proper disposal method.



Drainage Panels

MSISFILE: DPANEL PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

SECTION 14 Transportation Information

D.O.T. Primary Hazard Label:

D.O.T. Hazard Class:

D.O.T. Identification Number (UN/NA):

D.O.T. Packing Group:

Not Regulated

Not Required

Not Regulated

SECTION 15 Regulatory Information

U.S. Federal Regulations

SARA Title III, Section 302:

This product is NOT regulated under SARA Title III, Section 302 Extremely Hazardous Substances (40 CFR Part 355).

SARA Title III, Section 313:

This product does NOT contain toxic chemicals subject to the reporting requirements of SARA Title III, Section 313 (40 CFR 372) of the Emergency Planning and Community Right-To-Know Act of 1986.

State Regulations

CALIFORNIA SAFE DRINKING ACT (PROP 65 for Carcinogen and Teratogen):

This product does NOT contain any chemicals currently on the California List of Known Carcinogens and Reproductive Toxins.

SECTION 16 Other Information

	<u>HMIS</u>	<u>NFPA</u>
HEALTH:	0	N/A
FLAMMABILITY:	1	1
REACTIVITY:	0	0
PERSONAL PROTECTION:	Α	N/A

Sika Sarnafil Inc. Disclaimer of Expressed and Implied Warranties

The information in this Material Safety Information Sheet is offered in good faith as accurate at the date of issuance. No warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving it shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of use thereof. Compliance with all applicable Federal, State, and Local laws and regulations remains the responsibility of the user.



Revision Date 10/28/2015

1. Identification

Product name : Sarnafil® G459 Membrane

Supplier : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

: For further information, refer to product data sheet.

...

2. Hazards identification

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.



Revision Date 10/28/2015

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: No known significant effects or hazards.

See Section 11 for more detailed information on health effects

and symptoms.

Protection of first-aiders : No hazards which require special first aid measures.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

: Use extinguishing measures that are appropriate to local Suitable extinguishing media

circumstances and the surrounding environment.

Specific hazards during fire

fighting

: none

Specific extinguishing

methods

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Environmental precautions : Refer to protective measures listed in sections 7 and 8.

: Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

7. Handling and storage

Advice on safe handling : For personal protection see section 8.



Revision Date 10/28/2015

Print Date 10/29/2015

No special handling advice required.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Store in accordance with local regulations.

Materials to avoid : No data available

8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

Engineering measures : Use of adequate ventilation should be sufficient to control

worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any

recommended or statutory limits.

Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed

respirator complying with an approved standard if a risk

assessment indicates this is necessary.

The filter class for the respirator must be suitable for the

maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained

breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

Remove contaminated clothing and protective equipment

before entering eating areas.

Avoid breathing dust.



Revision Date 10/28/2015

9. Physical and chemical properties

Appearance : Flexible vinyl film

Color : various

Odor : none

Odor Threshold : No data available

Flash point : Note: Not applicable

Ignition temperature : No data available

Decomposition temperature : No data available

Lower explosion limit (Vol%) : No data available

Upper explosion limit (Vol%) : No data available

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

Autoignition temperature : No data available

pH : No data available

Melting point/range : 320 °F (160 °C)

Boiling point/boiling range : No data available

Vapor pressure : No data available

Density : 1.28 g/cm3

Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds

(VOC) content

Not applicable

10. Stability and reactivity



Revision Date 10/28/2015

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

11. Toxicological information

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information. **IARC** Not applicable

NTP Not applicable

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.



Revision Date 10/28/2015

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.



Revision Date 10/28/2015

Tillit Date 10/25/20

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65 This product does not contain any chemicals known to the State

of California to cause cancer, birth, or any other reproductive

defects.

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.



Revision Date 10/28/2015

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 10/28/2015

Material number: 452350



REVISION DATE: 7/3/2014

Material Safety Information Sheet

According to 29 CFR 1910.1200(5)(v)(c) this material is an article. No labeling or MSDS reporting is required.

SECTION 1 Product and Company Identification

TRADE NAME: Roofing/Waterproofing Membrane SYNONYMS: Sarnafil G-410, G-459, G-476, S-327,

MANUFACTURER: Sika Sarnafil

ADDRESS: 100 Dan Road, Canton, MA 02021-2842

EMERGENCY NUMBERS: CHEMTREC Transportation Emergency (24 hr.) (800) 424-9300

MSDS and Product Information (M -F, 8:30am -5:00pm EST) (800) 451-2504

SECTION 2 Information on Hazardous Ingredients

This material is considered an article according to 29 CFR 1910.1200(5)(v)(c). An article is by definition a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

An MSDS is required only for chemicals in products that are hazardous as defined by the OSHA standard 29 CFR 1910.1200. This Material Safety Information Sheet is provided in lieu of a Material safety Data Sheet.

CHEMICAL/COMMON NAME
Antimony TrioxideCAS NUMBER
1309-64-4PERCENT
<2.0 %</th>OSHA-PEL
0.5 mg/m³ACGIH-TLV
0.5 mg/m³

SECTION 3 Hazards Identification

EYES: May irritate eyes during thermal welding.

SKIN: May irritate skin during thermal welding.

INHALATION: None known.

INGESTION: None known.

SYMPTOMS: May cause skin sensitization in some people due to antimony trioxide.

SECTION 4 First Aid Measures

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical

attention.

SKIN: Wash skin with soap and plenty of water.

INHALATION: If exposed to fumes from thermal decomposition (flame), remove to fresh air. If not breathing, give

artificial respiration and seek medical attention immediately. Trained personnel should only

administer oxygen.

INGESTION: If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician.

Never give anything by mouth to an unconscious person.



REVISION DATE: 7/3/2014

SECTION 5 Fire Fighting Measures

FLASH POINT (F/ C) LEL (volume %) UEL (volume %)

/A N/A N/A

Extinguishing Media: Carbon dioxide, dry chemical, foam, or water spray.

Fire Fighting Procedures: Wear a self-contained breathing apparatus.

Unusual Hazards: None.

Combustion Products: Toxic gases such as carbon dioxide, carbon monoxide, metal oxides, and hydrochloric acid

may form if ignited by flame.

SECTION 6 Accidental Release Measures

Use normal cleanup procedure for solid materials.

SECTION 7 Handling and Storage

Store material away from heat and flame.

SECTION 8 Exposure Controls / Personal Protection

Engineering Controls: Mechanical ventilation may be necessary if working with the product in enclosed areas at

elevated temperatures as experienced during thermal welding.

Personal Protective Equipment:

EYES: Safety glasses. Consult your safety representative.

SKIN: Gloves recommended.

RESPIRATORY: NIOSH approved respirator is recommended if exposure to airborne contaminants exceeds

acceptable limits.

Exposure Guidelines:

PEL = Permissible Exposure Limits TLV = Threshold Limit Value TWA = Time Weighted Average (8 hr.) STEL = Short Term Exposure Limit (15 min.)



REVISION DATE: 7/3/2014

SECTION 9 Physical and Chemical Properties

APPEARANCE: Solid flexible membrane.

ODOR: None

BOILING POINT (@ 760 mm Hg): N/A

SPECIFIC GRAVITY: 1.27

LIQUID DENSITY: N/A

SOLUBILITY IN WATER: Insoluble

% VOLATILE VOLUME: N/A

EVAPORATION RATE (N-Butyl Acetate=1): N/A

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (air=1): N/A

SECTION 10 Stability and Reactivity

CONDITIONS TO AVOID:

Prolonged excessive heat, sparks, open flame, and smoking.

INCOMPATABILITY WITH OTHER MATERIALS:

N/A

HAZARDOUS DECOMPOSITION PRODUCTS:

Toxic gases such as carbon dioxide, carbon monoxide, metal oxides, and hydrochloric acid may form if ignited by flame.

HAZARDOUS POLYMERIZATION:

Will NOT undergo hazardous polymerization.

SECTION 11 Toxicological Information

Toxicological information is not available.

SECTION 12 Ecological Information

Ecological information is not available.

SECTION 13 Disposal Considerations

Dispose in accordance with applicable Federal, State, and Local regulations. Meets the Commonwealth of Massachusetts Department of Environmental Protection TCLP requirements for land fill disposal.



REVISION DATE: 7/3/2014

SECTION 14 Transportation Information

D.O.T. Primary Hazard Label:

D.O.T. Hazard Class:

D.O.T. Identification Number (UN/NA):

D.O.T. Packing Group:

Not Regulated

Not Regulated

Not Regulated

SECTION 15 Regulatory Information

U.S. Federal Regulations

SARA Title III, Section 302:

This product is NOT regulated under SARA Title III, Section 302 Extremely Hazardous Substances (40 CFR Part 355).

SARA Title III, Section 313:

This product contains toxic chemicals subject to the reporting requirements of SARA Title III, Section 313 (40 CFR 372) of the Emergency Planning and Community Right-To-Know Act of 1986.

State Regulations

CALIFORNIA SAFE DRINKING ACT (PROP 65 for Carcinogen and Teratogen):

This product contains chemicals currently on the California List of Known Carcinogens and Reproductive Toxins.

<u>CAS #</u> <u>Chemical Name</u> 1309-64-4 Antimony Trioxide

SECTION 16 Other Information

HEALTH: 0 N/A
FLAMMABILITY: 1 1 1
REACTIVITY: 0 0
PERSONAL PROTECTION: B N/A

Sika Sarnafil Disclaimer of Expressed and Implied Warranties

The information in this Material Safety Information Sheet is offered in good faith as accurate at the date of issuance. No warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving it shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of use thereof. Compliance with all applicable Federal, State, and Local laws and regulations remains the responsibility of the user.



MSISFILE: SandCOAT PRINT DATE: 11/20/2006 **REVISION DATE: 1/2/2007**

Material Safety Information Sheet

(According to 29 CFR 1910.1200(b)(6)(v) this material is an article. No labeling or MSDS reporting is required.)

SECTION 1 Product and Company Identification

TRADE NAME: Sand Coated Walkway

SYNONYMS:

MANUFACTURER:

Sika Sarnafil Inc.

ADDRESS:

100 Dan Road, Canton, MA 02021-2842

EMERGENCY NUMBERS:

CHEMTRAC Transportation Emergency (24 hr.)

(800) 424-9300

MSDS and Product Information (M-F, 8:30am -5:00pm EST)

(800) 451-2504

SECTION 2 Information on Hazardous Ingredients

This material is considered an article according to 29 CFR 1910.1200(b)(6)(v). An article is by definition a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

An MSDS is required only for chemicals in products that are hazardous as defined by the OSHA standard 29 CFR 1910.1200(g). This Material Safety Information Sheet is provided instead of a Material safety Data Sheet.

CHEMICAL/COMMON NAME	CAS NUMBER	<u>PERCENT</u>	OSHA-PEL	ACGIH-TLV
Antimony Trioxide	1309-64-4	<2.0 %	0.5 mg/m^3	0.5 mg/m^3
Barium Compounds	2457-01-4	<1.5 %	Not Listed	Not Listed
Crystallin e Silica (Respirable Dust)	14808-60-7		0.1 mg/m^3	0.1 mg/m^3
Amorphous Silica, Hydrated (Total Dust)	7631-86-9		$6\mathrm{mg/m}^3$	10 mg/m^3
Nuisance Dust (Respirable Dust) (Total Dust)			5 mg/m ³ 15 mg/m ³	5 mg/m ³ 10 mg/m ³

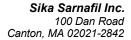
SECTION 3 Hazard Identification

EYES: May irritate eyes during thermal welding. Dust may cause eye irritation and damage to cornea.

SKIN: May irritate skin during thermal welding.

INHALATION: None known. INGESTION: None known.

SYMPTOMS: May cause skin sensitization in some people due to antimony trioxide.





MSISFILE: SandCOAT PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

SECTION 4 First Aid Measures

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical

attention.

SKIN: Wash skin with soap and plenty of water.

INHALATION: If exposed to fumes from thermal decomposition (flame), remove to fresh air. If not breathing, give

artificial respiration and seek medical attention immediately. Trained personnel should only

administer oxygen.

INGESTION: If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician.

Never give anything by mouth to an unconscious person.

SECTION 5 Fire Fighting Measures

FLASH POINT (F/C) LEL (volume %) UEL (volume %)

I/A N/A N/A

Extinguishing Media: Carbon dioxide, dry chemical, foam, or water spray.

Fire Fighting Procedures: Wear a self-contained breathing apparatus.

Unusual Hazards: None.

Combustion Products: Toxic gases such as carbon dioxide, carbon monoxide, metal oxides, and hydrochloric acid

may form if ignited by flame.

SECTION 6 Accidental Release Measures

Use normal cleanup procedure for spilled solid materials.

SECTION 7 Handling and Storage

Store material away from heat and flame.

SECTION 8 Exposure Controls / Personal Protection

Engineering Controls: Mechanical ventilation may be necessary if working with the product in enclosed areas at

elevated temperatures as experienced during thermal welding and dusty conditions.

Personal Protective Equipment:

EYES: Safety glasses or goggles to prevent eye contact. Wearing contact lenses when using this product

under dusty conditions is NOT recommended. Consult your safety representative.

SKIN: Gloves recommended.

RESPIRATORY: NIOSH approved respirator is recommended if exposure to airborne contaminants or dust exceeds

acceptable limits



MSISFILE: SandCOAT PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

Exposure Guidelines:

 CHEMICAL
 CAS NUMBER
 OSHA
 ACGIH TLV

 Antimony Trioxide
 1309-64-4
 <2.0 %</td>
 0.5 mg/m3
 0.5 mg/m3

Barium Compounds 2457-01-4 <1.5 % Not Listed Not Listed

Crystalline Silica (Respirable Dust) 14808-60-7 0.1 mg/m3 0.1 mg/m3

Amorphous Silica, Hydrated (Total Dust) 7631-86-9 6 mg/m3 10 mg/m3

Nuisance Dust

 (Respirable Dust)
 5 mg/m3
 5 mg/m3

 (Total Dust)
 15 mg/m3
 10 mg/m3

PEL = Permissible Exposure Limits TWA = Time Weighted Average (8 hr.)
TLV = Threshold Limit Value STEL = Short Term Exposure Limit (15 min.)

SECTION 9 Physical and Chemical Properties

APPEARANCE: Solid flexible membrane.

ODOR: None
BOILING POINT (@ 760 mm Hg): N/A

SPECIFIC GRAVITY: polymer =1.27, sand = 2.6-2.8

<u>LIQUID DENSITY</u>: N/A

SOLUBILITY IN WATER: Insoluble

% VOLATILE VOLUME: N/A

EVAPORATION RATE (N-Butyl Acetate=1): N/A

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (air=1): N/A

SECTION 10 Stability and Reactivity

CONDITIONS TO AVOID:

Prolonged excessive heat, sparks, open flame, and smoking.

INCOMPATABILITY WITH OTHER MATERIALS:

Dissolves in hydrofluoric acid producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, chlorine trifluoride and oxygen difluoride.

HAZARDOUS DECOMPOSITION PRODUCTS:

Toxic gases such as carbon dioxide, carbon monoxide, metal oxides, and hydrochloric acid may form if ignited by flame.



MSISFILE: SandCOAT PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

HAZARDOUS POLYMERIZATION:

Will NOT undergo hazardous polymerization.

SECTION 11 Toxicological Information

Toxicological information is not available.

SECTION 12 Ecological Information

Ecological information is not available.

SECTION 13 Disposal Considerations

Dispose in accordance with applicable Federal, State, and Local laws and regulations. Meets the Commonwealth of Massachusetts Department of Environmental Protection TCLP requirements for land fill disposal.

SECTION 14 Transportation Information

D.O.T. Primary Hazard Label:

D.O.T. Hazard Class:

D.O.T. Identification Number (UN/NA):

Not Regulated

None Required

D.O.T. Packing Group:

Not Regulated

SECTION 15 Regulatory Information

U.S. Federal Regulations

SARA Title III, Section 302:

This product is regulated under SARA Title III, Section 302 Extremely Hazardous Substances (40 CFR Part 355) and is considered a hazardous chemical and a delayed health hazard.

SARA Title III, Section 313:

This product contains toxic chemicals subject to the reporting requirements of SARA Title III, Section 313 (40 CFR 372) of the Emergency Planning and Community Right-To-Know Act of 1986.

State Regulations

CALIFORNIA SAFE DRINKING ACT (Proposition 65 for Carcinogen and Teratogen):

This product contains chemicals currently on the California List of Known Carcinogens and Reproductive Toxins.

CAS# Chemical Name
1309-644 Antimony Trioxide
14808-60-7 Crystalline Silica



MSISFILE: SandCOAT PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

SECTION 16 Other Information

HEALTH:

HEALTH:

FLAMMABILITY:

REACTIVITY:

PERSONAL PROTECTION:

HMIS

N/A

Sika Sarnafil Inc. Disclaimer of Expressed and Implied Warranties

The information in this Material Safety Information Sheet is offered in good faith as accurate at the date of issuance. No warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving it shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of use thereof. Compliance with all applicable Federal, State, and Local laws and regulations remains the responsibility of the user.

Page 5 of 5 www.sikacorp.com (800) 451-2504



Revision Date 04/16/2018 Print Date 04/16/2018

1. Identification

Product name Sarnacol®-2163 Board Adhesive Part 1

Supplier Sika Corporation

> 201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone (201) 933-8800

Telefax (201) 804-1076

E-mail address ehs@sika-corp.com

Emergency telephone CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

: For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Acute toxicity, Category 4 (Inhalation) H332: Harmful if inhaled. Skin irritation, Category 2 H315: Causes skin irritation. Eye irritation, Category 2B H320: Causes eye irritation.

Respiratory sensitization, Category 1 H334: May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

H317: May cause an allergic skin reaction. Skin sensitization, Category 1 Specific target organ systemic toxicity -H335: May cause respiratory irritation.

single exposure, Category 3, Respiratory system

Specific target organ systemic toxicity -

repeated exposure, Category 2

(Inhalation)

H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

GHS label elements

Hazard pictograms





Signal Word

Hazard Statements H315 + H320 Causes skin and eye irritation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing



Revision Date 04/16/2018 Print Date 04/16/2018

difficulties if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or

repeated exposure if inhaled.

Precautionary Statements

Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves.

P285 In case of inadequate ventilation wear respiratory

protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

Chemical name	CAS-No.	Concentration (%)
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	>= 25 - < 50 %
4,4'-methylenediphenyl diisocyanate	101-68-8	>= 25 - < 50 %
methylenediphenyl diisocyanate	26447-40-5	>= 5 - < 10 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.



Revision Date 04/16/2018 Print Date 04/16/2018

4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

: irritant effects sensitizing effects

Asthmatic appearance

Cough

Respiratory disorder Allergic reactions

Headache

See Section 11 for more detailed information on health effects

and symptoms.

Causes skin and eye irritation. May cause an allergic skin reaction.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific extinguishing : Collect contaminated fire extinguishing water separately. This



Revision Date 04/16/2018 Print Date 04/16/2018

methods must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Environmental precautions : Use personal protective equipment. Deny access to unprotected persons.

: Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

7. Handling and storage

Advice on safe handling : Avoid formation of aerosol.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is

being used.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Store in original container.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

Materials to avoid : No data available

No data available

8. Exposure controls/personal protection

Component CAS-No. Basis ** Value Exposure limit(s)*/	Component	CAS-No.	Basis **	Value	Exposure limit(s)* /
--	-----------	---------	----------	-------	----------------------



Revision Date 04/16/2018 Print Date 04/16/2018

				Form of exposure
4,4'-methylenediphenyl diisocyanate	101-68-8	ACGIH	TWA	0.005 ppm
		OSHA Z-1	С	0.02 ppm 0.2 mg/m3
		OSHA P0	С	0.02 ppm 0.2 mg/m3
methylenediphenyl diisocyanate	26447-40-5	OSHA Z-1	С	0.02 ppm 0.2 mg/m3
		OSHA P0	С	0.02 ppm 0.2 mg/m3

^{*}The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Basis

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection

: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection Remarks

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.



Revision Date 04/16/2018 Print Date 04/16/2018

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the

product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

9. Physical and chemical properties

Appearance : liquid

Color : off-white

amber

Odor : very faint

Odor Threshold : No data available

Flash point : $> 349 \, ^{\circ}\text{F} (176 \, ^{\circ}\text{C})$

Autoignition temperature : 752 °F (400 °C)

Decomposition temperature : No data available

Lower explosion limit (Vol%) : 0.9 %(V)

Upper explosion limit (Vol%) : 6.7 %(V)

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

pH : Note: Not applicable

Melting point/range /

Freezing point

: No data available

Boiling point/boiling range : No data available

Vapor pressure : ()

0.01 mmHg (0.01 hpa)

Density : ca.1.12 g/cm3

Water solubility : Note: immiscible

Partition coefficient: n-

octanol/water

: No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : ca.> 20.5 mm2/s



Revision Date 04/16/2018

Print Date 04/16/2018

at 104 °F (40 °C)

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds

(VOC) content

18 g/l

Part 1+2 Combined

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Stable under recommended storage conditions.

Conditions to avoid : No data available

No data available

Incompatible materials : No data available

No data available

11. Toxicological information

Acute toxicity

Harmful if inhaled.

Ingredients:

Diphenylmethanediisocyanate, isomeres and homologues:

Acute oral toxicity : LD50 Oral (Rat): > 10,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Expert judgment

Acute dermal toxicity : LD50 Dermal (Rabbit): > 9,400 mg/kg

4,4'-methylenediphenyl diisocyanate:

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

Test atmosphere: dust/mist Method: Expert judgment



Revision Date 04/16/2018

Print Date 04/16/2018

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes eye irritation.

Respiratory or skin sensitization

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Germ cell mutagenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

NTP Not applicable

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.



Revision Date 04/16/2018 Print Date 04/16/2018

14. Transport information

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Chronic Health Hazard

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Diphenylmethanediisocyana 9016-87-9 25-50%

te, isomeres and

homologues

4,4'-methylenediphenyl 101-68-8 25-50%

diisocyanate

Clean Air Act



Revision Date 04/16/2018

Print Date 04/16/2018

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

4,4'-methylenediphenyl

101-68-8

25-50%

diisocyanate

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65 This product does not contain any chemicals known to the State

of California to cause cancer, birth, or any other reproductive

defects.

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 04/16/2018



Revision Date 04/16/2018

Material number: 183986



Revision Date 04/17/2018 Print Date 04/17/2018

1. Identification

Product name : Sarnacol®-2163 Board Adhesive Part 2

Supplier : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

: For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Skin irritation, Category 2

Eye irritation, Category 2A

Skin sensitization, Category 1

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

GHS label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

Precautionary Statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water



Revision Date 04/17/2018 Print Date 04/17/2018

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 Take off contaminated clothing and wash before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

Chemical name	CAS-No.	Concentration (%)
N-(3-(trimethoxysilyl)propyl)ethylenediamine	1760-24-3	>= 2 - < 3 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

: irritant effects sensitizing effects

Allergic reactions Excessive lachrymation



Revision Date 04/17/2018 Print Date 04/17/2018

Erythema Dermatitis

See Section 11 for more detailed information on health effects

and symptoms.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific extinguishing

methods

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Environmental precautions : Use personal protective equipment. Deny access to unprotected persons.

: Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

7. Handling and storage

Advice on safe handling : Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is



Revision Date 04/17/2018 Print Date 04/17/2018

being used.

Smoking, eating and drinking should be prohibited in the

application area.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Store in accordance with local regulations.

Materials to avoid : No data available

8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

Engineering measures : Use of adequate ventilation should be sufficient to control

worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any

recommended or statutory limits.

Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed

respirator complying with an approved standard if a risk

assessment indicates this is necessary.

The filter class for the respirator must be suitable for the

maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained

breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling

chemical products if a risk assessment indicates this is

necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the

product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

First Poto 04/17/2018

Revision Date 04/17/2018

Print Date 04/17/2018

9. Physical and chemical properties

Appearance : liquid

Color : colorless

Odor : very faint

Odor Threshold : No data available

Flash point : $> 662 \, ^{\circ}\text{F} \, (350 \, ^{\circ}\text{C})$

Ignition temperature : No data available

Decomposition temperature : No data available

Lower explosion limit (Vol%) : 0.9 %(V)

Upper explosion limit (Vol%) : 6.7 %(V)

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

pH : 9 - 10

at

73 °F (23 °C)

Melting point/range /

Freezing point

: No data available

Boiling point/boiling range : No data available

Vapor pressure : ()

0.01 mmHg (0.01 hpa)

Density : ca.0.98 g/cm3

at 68 °F (20 °C)

Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : >20.5 mm2/s

at 104 °F (40 °C)

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available



Revision Date 04/17/2018 Print Date 04/17/2018

Volatile organic compounds

(VOC) content

: 18 g/l

Part 1+2 Combined

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

11. Toxicological information

Acute toxicity

Not classified based on available information.

Ingredients:

N-(3-(trimethoxysilyl)propyl)ethylenediamine:

Acute oral toxicity : LD50 Oral (Rat): 2,995 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Result: Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.



Revision Date 04/17/2018

Print Date 04/17/2018

Aspiration toxicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

NTP Not applicable

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the



Revision Date 04/17/2018 Print Date 04/17/2

TSCA Inventory or are in compliance with a TSCA Inventory exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Chronic Health Hazard

Serious eye damage or eye irritation Respiratory or skin sensitization Skin corrosion or irritation

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion

Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65 This product does not contain any chemicals known to the State

of California to cause cancer, birth, or any other reproductive

defects.

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the



Revision Date 04/17/2018 Print Date 04/17/2018

National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 04/17/2018

Material number: 183987



Revision Date 12/05/2018

1. Identification

Product name Sarnacol®-2170 Membrane Adhesive

Supplier Sika Corporation

> 201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone (201) 933-8800

Telefax (201) 804-1076

E-mail address ehs@sika-corp.com

CHEMTREC: 800-424-9300 Emergency telephone

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

: For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Flammable liquids, Category 2 H225: Highly flammable liquid and vapor. Skin irritation, Category 2 H315: Causes skin irritation.

Eye irritation, Category 2A H319: Causes serious eye irritation. Skin sensitization, Category 1 H317: May cause an allergic skin reaction.

Carcinogenicity, Category 2 (Inhalation) H351: Suspected of causing cancer if inhaled. Reproductive toxicity, Category 2 H361: Suspected of damaging fertility or the

unborn child.

Specific target organ systemic toxicity -

single exposure, Category 3, Central

nervous system

Specific target organ systemic toxicity repeated exposure, Category 2

(Inhalation)

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

GHS label elements

Hazard pictograms







Signal Word Danger

Hazard Statements H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.



Revision Date 12/05/2018 Print Date 12/05/2018

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer if inhaled.

H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or

repeated exposure if inhaled.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

P281 Use personal protective equipment as required.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Warning

: Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors



Revision Date 12/05/2018 Print Date 12/05/2018

may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

Chemical name	CAS-No.	Concentration (%)
butanone	78-93-3	>= 25 - < 50 %
toluene	108-88-3	>= 25 - < 50 %
xylenes	1330-20-7	>= 2 - < 5 %
ethylbenzene	100-41-4	>= 1 - < 2 %
tris(nonylphenyl) phosphite	26523-78-4	>= 0.1 - < 1 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

: irritant effects sensitizing effects

Respiratory disorder Allergic reactions Excessive lachrymation

Erythema
Dermatitis
Loss of balance

Vertigo



Revision Date 12/05/2018 Print Date 12/05/2018

See Section 11 for more detailed information on health effects and symptoms.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.

May cause drowsiness or dizziness.

Suspected of causing cancer if inhaled.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Water

High volume water jet

Specific hazards during fire

fighting

: Do not use a solid water stream as it may scatter and spread

fire.

Specific extinguishing

methods

: Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Use personal protective equipment.
 Remove all sources of ignition.
 Deny access to unprotected persons.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.



Revision Date 12/05/2018 Print Date 12/05/2018

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. Handling and storage

Advice on safe handling : Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is

being used.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Store in original container.

Store in cool place.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

Materials to avoid : No data available

8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
butanone	78-93-3	ACGIH	TWA	200 ppm
		ACGIH	STEL	300 ppm
		OSHA Z-1	TWA	200 ppm 590 mg/m3
		OSHA P0	TWA	200 ppm 590 mg/m3
		OSHA P0	STEL	300 ppm 885 mg/m3



Revision Date 12/05/2018

Print Date 12/05/2018

Toluene	108-88-3	ACGIH	TWA	20 ppm
		OSHA Z-2	TWA	200 ppm
		OSHA Z-2	CEIL	300 ppm
		OSHA Z-2	Peak	500 ppm
		OSHA P0	TWA	100 ppm 375 mg/m3
		OSHA P0	STEL	150 ppm 560 mg/m3
xylene	1330-20-7	OSHA Z-1	TWA	100 ppm 435 mg/m3
		OSHA P0	STEL	150 ppm 655 mg/m3
		OSHA P0	TWA	100 ppm 435 mg/m3
		ACGIH	TWA	100 ppm
		ACGIH	STEL	150 ppm
ethylbenzene	100-41-4	ACGIH	TWA	20 ppm
		ACGIH	STEL	125 ppm
		OSHA Z-1	TWA	100 ppm 435 mg/m3
		OSHA P0	TWA	100 ppm 435 mg/m3
		OSHA P0	STEL	125 ppm 545 mg/m3



Revision Date 12/05/2018 Print Date 12/05/2018

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Basis

ACGIH. Threshold Limit Values (TLV)

OSHA Po. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust

concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection

: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Remarks

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection

: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the

product.

Remove respiratory and skin/eye protection only after vapors

have been cleared from the area.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.



Revision Date 12/05/2018

Print Date 12/05/2018

9. Physical and chemical properties

Appearance : liquid
Color : amber

Odor : characteristic

Odor Threshold : No data available

Flash point : ca. 23 °F (-5 °C)

Ignition temperature : 869 °F (465 °C)

Decomposition temperature : No data available

Lower explosion limit (Vol%) : 1 %(V)

Upper explosion limit (Vol%) : 7 %(V)

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

pH : Note: Not applicable

Melting point/range /

Freezing point

No data available

Boiling point/boiling range : 232 °F (111 °C)

Vapor pressure : 66.750 mmHg (88.9924 hpa)

Density : ca.0.888 g/cm3

at 73 °F (23 °C)

Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : ca.> 20.5 mm2/s

at 104 °F (40 °C)

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds

(VOC) content

694.2 g/l

10. Stability and reactivity

Revision Date 12/05/2018

Sarnacol®-2170 Membrane Adhesive



Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : No data available

11. Toxicological information

Acute toxicity

Not classified based on available information.

Components:

butanone:

Acute oral toxicity : LD50 Oral (Rat): 3,300 mg/kg

Acute inhalation toxicity : LC50 (Rat): 36 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

xylenes:

Acute oral toxicity : LD50 Oral (Rat): 3,523 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 1,700 mg/kg

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 5,510 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

STOT-single exposure

May cause drowsiness or dizziness.



Revision Date 12/05/2018 Print Date 12/05/2018

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer if inhaled.

IARC Group 2B: Possibly carcinogenic to humans

ethylbenzene 100-41-4

NTP Not applicable

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

Component:

xylene 1330-20-7 <u>Toxicity to fish:</u>

LC50

Species: Oncorhynchus mykiss (rainbow trout)

Dose: 3.3 mg/l Exposure time: 96 h

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

UN number 1133



Revision Date 12/05/2018

Adhesives

Description of the goods Adh.
Class 3
Packing group II
Labels 3
Emergency Response 128

Guidebook Number

IATA

UN number 1133
Description of the goods Adhesives

Class 3
Packing group II
Labels 3
Packing instruction (cargo 364

aircraft)

Packing instruction 353

(passenger aircraft)

Packing instruction Y341

(passenger aircraft)

IMDG

UN number 1133

Description of the goods ADHESIVES

Class 3
Packing group II
Labels 3
EmS Number 1 F-E
EmS Number 2 S-D

Marine pollutant no

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.



Revision Date 12/05/2018 Print Date 12/05/2018

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

> Chronic Health Hazard Skin corrosion or irritation

Serious eye damage or eye irritation

Carcinogenicity Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Respiratory or skin sensitization

: This material does not contain any components with a section **SARA 302**

302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Toluene 108-88-3 26.45 % xylene 1330-20-7 3.65 % ethylbenzene 100-41-4 1.62 %

Clean Air Act

Ozone-Depletion

This product neither contains, nor was manufactured with a **Potential** Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR

61):

Toluene 108-88-3 26.45 % xylene 1330-20-7 3.65 % ethylbenzene 100-41-4 1.62 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65

WARNING: Cancer and Reproductive Harm -

www.P65Warnings.ca.gov

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the



Revision Date 12/05/2018

National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 12/05/2018

Material number: 179726



Revision Date 12/05/2018 Print Date 12/05/2018

1. Identification

Product name Sarnacol®-2170 VC Membrane Adhesive

Supplier Sika Corporation

> 201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone (201) 933-8800

Telefax (201) 804-1076

E-mail address ehs@sika-corp.com

Emergency telephone CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

: For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Flammable liquids, Category 2 H225: Highly flammable liquid and vapor. Eye irritation, Category 2A H319: Causes serious eye irritation. Reproductive toxicity, Category 2 H361: Suspected of damaging fertility or the

unborn child.

Specific target organ systemic toxicity single exposure, Category 3, Respiratory

system

GHS label elements

, Central nervous system

Hazard pictograms







H336: May cause drowsiness or dizziness.

H335: May cause respiratory irritation.

Signal Word Danger

Hazard Statements H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements Prevention:

P201 Obtain special instructions before use.



Revision Date 12/05/2018 Print Date 12/05/2018

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P281 Use personal protective equipment as required.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Warning

: Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients



Revision Date 12/05/2018 Print Date 12/05/2018

Chemical name	CAS-No.	Concentration (%)
acetone	67-64-1	>= 25 - < 50 %
tert-butyl acetate	540-88-5	>= 25 - < 50 %
toluene	108-88-3	>= 0.1 - < 1 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: irritant effects

Cough

Respiratory disorder Excessive lachrymation

Loss of balance

Vertigo

See Section 11 for more detailed information on health effects

and symptoms.

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures



Revision Date 12/05/2018 Print Date 12/05/2018

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: Water

High volume water jet

Specific hazards during fire

fighting

: Do not use a solid water stream as it may scatter and spread

fire.

Specific extinguishing

methods

: Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Remove all sources of ignition.

Deny access to unprotected persons.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

: Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

7. Handling and storage

Advice on safe handling : Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.



Revision Date 12/05/2018

Print Date 12/05/2018

Conditions for safe storage : Store in original container.

Store in cool place.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

Materials to avoid : No data available

8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
acetone	67-64-1	ACGIH	TWA	250 ppm
		ACGIH	STEL	500 ppm
		OSHA Z-1	TWA	1,000 ppm 2,400 mg/m3
		OSHA P0	TWA	750 ppm 1,800 mg/m3
		OSHA P0	STEL	1,000 ppm 2,400 mg/m3
tert-butyl acetate	540-88-5	OSHA Z-1	TWA	200 ppm 950 mg/m3
		OSHA P0	TWA	200 ppm 950 mg/m3
Toluene	108-88-3	ACGIH	TWA	20 ppm
		OSHA Z-2	TWA	200 ppm
		OSHA Z-2	CEIL	300 ppm
		OSHA Z-2	Peak	500 ppm
		OSHA P0	TWA	100 ppm 375 mg/m3
		OSHA P0	STEL	150 ppm 560 mg/m3



Revision Date 12/05/2018

Print Date 12/05/2018

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Basis

ACGIH. Threshold Limit Values (TLV)

OSHA Po. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust

concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection

 Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Remarks

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection

: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the

product.

Remove respiratory and skin/eye protection only after vapors

have been cleared from the area.

Remove contaminated clothing and protective equipment

before entering eating areas.



Revision Date 12/05/2018 Print Date 12/05/2018

9. Physical and chemical properties

Appearance : viscous liquid

Color : milky

off-white

Odor : acetone-like

Odor Threshold : No data available

Flash point : -4 °F (-20 °C)

Ignition temperature : No data available

Decomposition temperature : No data available

Lower explosion limit (Vol%) : 2.5 %(V)

Upper explosion limit (Vol%) : 13 %(V)

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

pH : Note: Not applicable

Melting point/range /

Boiling point/boiling range

Freezing point

: ca. 133 °F (56 °C)

No data available

Vapor pressure : 31 mmHg (41 hpa)

Density : ca.0.88 g/cm3

at 73 °F (23 °C)

Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : ca.> 20.5 mm2/s

at 104 °F (40 °C)

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds : 348 g/l

(VOC) content : 0 g/l with exempt solvent*;

*The U.S. EPA considers the solvent in Sarnacol 2170 VC as "exempt", and therefore the product can be used in all jurisdictions operating under the EPA guidelines. At this time, the SCAQMD does not recognize it as "exempt", and therefore the adhesive cannot be used in jurisdictions operating under their guidelines (e.g specific counties in CA). 2170 VC is not eligible for credits in LEED or Green Globes projects.



Revision Date 12/05/2018

Print Date 12/05/2018

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : No data available

11. Toxicological information

Acute toxicity

Not classified based on available information.

Components:

tert-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 4,500 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

STOT-single exposure

May cause respiratory irritation.

May cause drowsiness or dizziness.

STOT-repeated exposure

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Aspiration toxicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.



Revision Date 12/05/2018 Print Date 12/05/2018

IARC Not applicable

NTP Not applicable

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

Component:

acetone 67-64-1 <u>Toxicity to fish:</u>

LC50

Species: Fish Dose: > 5,000 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50

Species: Daphnia Dose: 12.700 mg/l Exposure time: 48 h

Toxicity to algae:

ErC50

Species: Pseudokirchneriella subcapitata (green algae)

Dose: > 530 mg/l Exposure time: 96 h

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

UN number 1133
Description of the goods Adhesives

Class 3
Packing group II
Labels 3
Emergency Response 128



Revision Date 12/05/2018

Print Date 12/05/2018

Guidebook Number

IATA

UN number 1133
Description of the goods Adhesives

Class 3
Packing group II
Labels 3
Packing instruction (cargo 364

aircraft)

Packing instruction 353

(passenger aircraft)

Packing instruction Y341

(passenger aircraft)

IMDG

UN number 1133

Description of the goods ADHESIVES

Class 3
Packing group II
Labels 3
EmS Number 1 F-E
EmS Number 2 S-D

Marine pollutant no

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)



Revision Date 12/05/2018 Print Date 12/05/2018

Serious eye damage or eye irritation

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with

> known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion

This product neither contains, nor was manufactured with a **Potential** Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65

WARNING: Cancer and Reproductive Harm -

www.P65Warnings.ca.gov

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.



Revision Date 12/05/2018

Print Date 12/05/2018

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 12/05/2018

Material number: 404362



Revision Date 05/19/2017 Print Date 05/19/2017

1. Identification

Product name Sarnacol®-2121 Membrane Adhesive

Supplier Sika Corporation

> 201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone (201) 933-8800

Telefax (201) 804-1076

E-mail address ehs@sika-corp.com

CHEMTREC: 800-424-9300 Emergency telephone

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Flammable liquids, Category 3 H226: Flammable liquid and vapor.

Skin sensitization, Category 1 H317: May cause an allergic skin reaction. Reproductive toxicity, Category 1B H360: May damage fertility or the unborn child. Specific target organ systemic toxicity -

single exposure, Category 1

Specific target organ systemic toxicity -

repeated exposure, Category 2

(Inhalation)

H370: Causes damage to organs.

H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

GHS label elements

Hazard pictograms







Signal Word Danger

Hazard Statements H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child.

H370 Causes damage to organs.

H373 May cause damage to organs through prolonged or

repeated exposure if inhaled.

Precautionary Statements : Prevention:



Revision Date 05/19/2017 Print Date 05/19/2017

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ eye protection/ face protection.

P281 Use personal protective equipment as required.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P307 + P311 IF exposed: Call a POISON CENTER or doctor/physician.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Warning

: Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

Chemical name	CAS-No.	Concentration (%)
Toluene	108-88-3	>= 5 - < 10 %
methanol	67-56-1	>= 2 - < 5 %



Revision Date 05/19/2017 Print Date 05/19/2017

Dibutylphthalate	84-74-2	>= 0.1 - < 1 %
1,2-benzisothiazol-3(2H)-one	2634-33-5	>= 0.1 - < 1 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

: Allergic reactions

See Section 11 for more detailed information on health effects

and symptoms.

sensitizing effects

toxic effects for reproduction

May cause an allergic skin reaction. May damage fertility or the unborn child.

Causes damage to organs.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: Water



Revision Date 05/19/2017 Print Date 05/19/2017

Specific extinguishing

methods

: Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

: Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

7. Handling and storage

Advice on safe handling

: Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is

being used.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Pregnant women or women of child-bearing age should not be

exposed to this product.

Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage

Store in original container.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.



Revision Date 05/19/2017

Print Date 05/19/2017

Observe label precautions.

Store in accordance with local regulations.

Materials to avoid : No data available

8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
Toluene	108-88-3	ACGIH	TWA	20 ppm
		OSHA Z-2	TWA	200 ppm
		OSHA Z-2	CEIL	300 ppm
		OSHA Z-2	Peak	500 ppm
		OSHA P0	TWA	100 ppm 375 mg/m3
		OSHA P0	STEL	150 ppm 560 mg/m3
methanol	67-56-1	ACGIH	TWA	200 ppm
		ACGIH	STEL	250 ppm
		OSHA Z-1	TWA	200 ppm 260 mg/m3
		OSHA P0	TWA	200 ppm 260 mg/m3
		OSHA P0	STEL	250 ppm 325 mg/m3
Dibutylphthalate	84-74-2	ACGIH	TWA	5 mg/m3
		OSHA Z-1	TWA	5 mg/m3
		OSHA P0	TWA	5 mg/m3



Revision Date 05/19/2017 Print Date 05/19/2017

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Basis

ACGIH. Threshold Limit Values (TLV)

OSHA Po. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust

concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection

 Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Remarks

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection

: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures

: Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the

product.

Remove respiratory and skin/eye protection only after vapors

have been cleared from the area.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.



Revision Date 05/19/2017

9. Physical and chemical properties

Appearance : liquid

Color : off-white

Odor : solvent

Odor Threshold : No data available

Flash point : ca. 104 °F (40 °C)

Ignition temperature : No data available

Decomposition temperature : No data available

Lower explosion limit (Vol%) : 1 %(V)

Upper explosion limit (Vol%) : 7 %(V)

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

pH : Note: Not applicable

Melting point/range /

Freezing point

No data available

Boiling point/boiling range : No data available

Vapor pressure : 21.750 mmHg (28.9975 hpa)

Density : ca.1.08 g/cm3

at 73 °F (23 °C)

Water solubility : Note: soluble

Partition coefficient: n-

octanol/water

No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : ca.> 20.5 mm2/s

at 104 °F (40 °C)

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds

(VOC) content

240 g/l

10. Stability and reactivity

Revision Date 05/19/2017

Sarnacol®-2121 Membrane Adhesive



Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : No data available

11. Toxicological information

Acute toxicity

Not classified based on available information.

Ingredients:

methanol:

Acute oral toxicity : Acute toxicity estimate: 100 mg/kg

Method: Converted acute toxicity point estimate

Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: Converted acute toxicity point estimate

Acute dermal toxicity : Acute toxicity estimate: 300 mg/kg

Method: Converted acute toxicity point estimate

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization: May cause an allergic skin reaction.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure

Causes damage to organs.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.



Revision Date 05/19/2017

Aspiration toxicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

NTP Not applicable

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

Component:

1,2-benzisothiazol-3(2H)- 2634-33-5

one

Toxicity to daphnia and other aquatic invertebrates:

EC50

Species: Daphnia Dose: 3 mg/l Exposure time: 48 h

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

UN number 1993

Description of the goods Flammable liquids, n.o.s.

(Toluene)

Class 3
Packing group III
Labels 3
Emergency Response 128

Guidebook Number



Revision Date 05/19/2017

Print Date 05/19/2017

IATA

UN number 1993

Description of the goods Flammable liquid, n.o.s.

(Toluene)

Class 3
Packing group III
Labels 3
Packing instruction (cargo 366

aircraft)

IMDG

UN number 1993

Description of the goods FLAMMABLE LIQUID, N.O.S.

(Toluene)

Class 3
Packing group III
Labels 3
EmS Number 1 F-E
EmS Number 2 S-E

Marine pollutant no

DOT: As per 49CFR 173.150 (f) Combustible Liquid Exception, Material is Not Regulated.

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

Chronic Health Hazard Acute Health Hazard



Revision Date 05/19/2017 Print Date 05/19/2017

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

8.84 % Toluene 108-88-3 methanol 67-56-1 2.14 %

Clean Air Act

Ozone-Depletion This product neither contains, nor was manufactured with a **Potential**

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR

61):

Toluene 108-88-3 8.84 % methanol 67-56-1 2.14 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65 WARNING: Cancer and Reproductive Harm -

www.P65Warnings.ca.gov

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.



Revision Date 05/19/2017

Print Date 05/19/2017

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 05/19/2017

Material number: 184917

Sika Sarnafil Inc. 100 Dan Road Canton, MA 02021-2842

Sarnafelt

MSISFILE: SFELT PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

Material Safety Information Sheet

(According 29 CFR 1910.1200(b)(6)(v) this material is an article. No labeling or MSDS reporting is required.)

SECTION 1 Product and Company Identification

TRADE NAME: Sarnafelt

SYNONYMS: Polypropylene Felt

MANUFACTURER: Sika Sarnafil, Inc.

ADDRESS: 100 Dan Road, Canton, MA 02021-2842

EMERGENCY NUMBERS: CHEMTRAC Transportation Emergency (24 hr.) (800) 424-9300

MSDS and Product Information (MF, 8:30am -5:00pm EST) (800) 451-2504

SECTION 2 Information on Hazardous Ingredients

This material is considered an article according to 29 CFR 1910.1200(b)(6)(v). An article is by definition a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

An MSDS is required only for chemicals in products that are hazardous as defined by the OSHA standard 29 CFR 1910.120(g). This Material Safety Information Sheet is provided in lieu of a Material safety Data Sheet.

SECTION 3 Hazards Identification

EYES: N/A

SKIN: N/A

INHALATION: Dusts are considered nuisance dusts.

INGESTION: N/A

SYMPTOMS: None known.

SECTION 4 First Aid Measures

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical

attention.

SKIN: Immediately remove contaminated clothing. Flush affected area with large amounts of water for at

least 15 minutes. Use mild soap if available. Get medical attention.

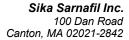
INHALATION: Remove to fresh air. If breathing is stopped, apply artificial respiration. If breathing is difficult, give

oxygen provided a qualified operator is available. Get medical attention for irritation or any other

symptom.

INGESTION: If swallowed, rinse mouth with water. ONLY induce vomiting at the instruction of a physician.

Never give anything by mouth to an unconscious person.





Sarnafelt

MSISFILE: SFELT PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

SECTION 5 Fire Fighting Measures

FLASH POINT (F/ C) LEL (volume %) UEL (volume %)

/A N/A N/A

Extinguishing Media: Alcohol resistant foam, dry chemical, carbon dioxide, water-spray.

Fire Fighting Procedures: Wear a self-contained breathing apparatus with full face-piece and full protective clothing.

Unusual Hazards: None.

Combustion Products: May form carbon dioxide, carbon monoxide, and/or various hydrocarbons.

SECTION 6 Accidental Release Measures

Use normal cleanup procedure for solid materials.

SECTION 7 Handling and Storage

Store material away from heat and flame.

SECTION 8 Exposure Controls / Personal Protection

Engineering Controls: Mechanical ventilation may be necessary if working with the product in enclosed areas due

to high dust levels from grinding, sawing, and fabrication activities.

Personal Protective Equipment:

EYES: Safety glasses or goggles. Consult your safety representative.

SKIN: Wear clothing suitable to prevent skin contact.

RESPIRATORY: Not required for properly ventilated areas. If high concentrations of dust should accumulate, use a

NIOSH approved disposable dust respirator (3M model 8210, 8710, or in high humidity environments

Model 9900).

Exposure Guidelines:

CHEMICAL OSHA PEL ACGIH TLV

Not established. N/A N/A

PEL = Permissible Exposure Limits TLV = Threshold Limit Value TWA = Time Weighted Average (8 hr.) STEL = Short Term Exposure Limit (15 min.)



Sarnafelt

MSISFILE: SFELT PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

SECTION 9 Physical and Chemical Properties

APPEARANCE Fibrous Solid Material

ODOR: Odorless

BOILING POINT (@ 760 mm Hg): N/A

SPECIFIC GRAVITY: 0.91

LIQUID DENSITY: N/A

SOLUBILITY IN WATER: Insoluble

% VOLATILE VOLUME:

EVAPORATION RATE (N-Butyl Acetate=1): N/A

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (air=1): N/A

SECTION 10 Stability and Reactivity

CONDITIONS TO AVOID:

Stable under normal conditions.

INCOMPATABILITY WITH OTHER MATERIALS:

N/A

HAZARDOUS DECOMPOSITION PRODUCTS:

May form carbon dioxide and carbon monoxide.

HAZARDOUS POLYMERIZATION:

Will NOT undergo hazardous polymerization.

SECTION 11 Toxicological Information

Toxicological information is not available.

SECTION 12 Ecological Information

Ecological information is not available.

SECTION 13 Disposal Considerations

Dispose in accordance with applicable Federal, State, and Local regulations. Product use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter RCRA classification and the proper disposal method.



Sarnafelt

MSISFILE: SFELT PRINT DATE: 11/20/2006
REVISION DATE: 1/2/2007

SECTION 14 Transportation Information

D.O.T. Primary Hazard Label:

D.O.T. Hazard Class:

D.O.T. Identification Number (UN/NA):

D.O.T. Packing Group:

Not Regulated

Not Regulated

Not Regulated

SECTION 15 Regulatory Information

U.S. Federal Regulations

SARA Title III, Section 302:

This product is NOT regulated under SARA Title III, Section 302 Extremely Hazardous Substances (40 CFR Part 355).

SARA Title III, Section 313:

This product does NOT contain toxic chemicals subject to the reporting requirements of SARA Title III, Section 313 (40 CFR 372) of the Emergency Planning and Community Right-To-Know Act of 1986.

State Regulations

CALIFORNIA SAFE DRINKING ACT (PROP 65 for Carcinogen and Teratogen):

This product does NOT contain any chemicals currently on the California List of Known Carcinogens and Reproductive Toxins.

SECTION 16 Other Information

<u>HMIS</u>	<u>NFPA</u>
0	N/A
1	1
0	0
Α	N/A
	0 1 0

Sika Sarnafil Inc. Disclaimer of Expressed and Implied Warranties

The information in this Material Safety Information Sheet is offered in good faith as accurate at the date of issuance. No warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving it shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of use thereof. Compliance with all applicable Federal, State, and Local laws and regulations remains the responsibility of the user.



Revision Date 09/26/2019

SECTION 1. IDENTIFICATION

Product name : Sarnafiller Part A

Company name : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Eye irritation : Category 2A

GHS label elements

Hazard pictograms :

Signal Word : Warning

Hazard Statements : H319 Causes serious eye irritation.

Precautionary Statements : Prevention:

P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.



Revision Date 09/26/2019 Print Date 09/26/2019

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra- tion (% w/w)
calcium oxide	1305-78-8	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms

and effects, both acute and

delayed

Excessive lachrymation

irritant effects

Causes serious eye irritation.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.



Revision Date 09/26/2019 Print Date 09/26/2019

Collect contaminated fire extinguishing water separately. This Further information

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: : tive equipment and emer-

gency procedures

Use personal protective equipment. Deny access to unprotected persons.

Local authorities should be advised if significant spillages **Environmental precautions**

cannot be contained.

Methods and materials for

containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage Keep container tightly closed in a dry and well-ventilated

Store in accordance with local regulations.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	
calcium oxide	1305-78-8	TWA	2 mg/m3	ACGIH



Revision Date 09/26/2019 Print Date 09/26/2019

TWA	5 mg/m3	OSHA Z-1
TWA	5 mg/m3	OSHA P0
TWA	2 mg/m3	NIOSH REL

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures : Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Color : white

Odor : mild, mint-like

Print Date 09/26/2019

Revision Date 09/26/2019

Odor Threshold : No data available

pH : Not applicable

Melting point/range / Freezing :

point

No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower :

flammability limit

No data available

Vapor pressure : 0.01 hpa

Relative vapor density : No data available

Density : 0.92 g/cm3

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm2/s

Explosive properties : No data available

Oxidizing properties : No data available

Volatile organic compounds

(VOC) content

: 7 g/l

A+B Combined

SECTION 10. STABILITY AND REACTIVITY



Revision Date 09/26/2019

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

OSHA Not applicable

NTP Not applicable

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.



Revision Date 09/26/2019

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

Do not empty into drains; dispose of this material and its con-

tainer in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list : All chemical substances in this product are either listed on the



Revision Date 09/26/2019 Print Date 09/26/2019

TSCA Inventory or are in compliance with a TSCA Inventory exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop 65 : This product does not contain any chemicals known to the State

of California to cause cancer, birth, or any other reproductive

defects.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on

Safety Data Sheet

Sarnafiller Part A



Revision Date 09/26/2019

Print Date 09/26/2019

the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 09/26/2019

000000605365

US / Z8



Revision Date 09/26/2019

SECTION 1. IDENTIFICATION

Product name : Sarnafiller Part B

Company name : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2B

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Specific target organ toxicity

- single exposure

Category 3 (Respiratory system)

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

GHS label elements

Hazard pictograms



Category 2



Signal Word : Danger



Revision Date 09/26/2019 Print Date 09/26/2019

Hazard Statements : H315 + H320 Causes skin and eye irritation.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or re-

peated exposure if inhaled.

Precautionary Statements

Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves. P284 Wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/ atten-

tion.

P342 + P311 If experiencing respiratory symptoms: Call a

POISON CENTER/doctor.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

None known.



Revision Date 09/26/2019 Print Date 09/26/2019

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra-
Dishanylmathanadiisaayanata nal	9016-87-9	Acuto Toy 4: U222	tion (% w/w)
Diphenylmethanediisocyanate, pol-	9016-87-9	Acute Tox. 4; H332	>= 30 - < 50
ymeric		Skin Irrit. 2; H315	
		Eye Irrit. 2B; H320	
		Resp. Sens. 1; H334	
		Skin Sens. 1; H317	
		STOT SE 3; H335	
4.41 (1.1.1.12)	101 00 0	STOT RE 2; H373	00 50
4,4'-methylenediphenyl diisocyanate	101-68-8	Acute Tox. 4; H332	>= 30 - < 50
		Skin Irrit. 2; H315	
		Eye Irrit. 2B; H320	
		Resp. Sens. 1; H334	
		Skin Sens. 1; H317	
		STOT SE 3; H335	
		STOT RE 2; H373	
methylenediphenyl diisocyanate	26447-40-5	Acute Tox. 4; H332	>= 5 - < 10
		Skin Irrit. 2; H315	
		Eye Irrit. 2B; H320	
		Resp. Sens. 1; H334	
		Skin Sens. 1; H317	
		STOT SE 3; H335	
		STOT RE 2; H373	
Isocyanic acid, polymethylenepoly-	57636-09-6	Acute Tox. 4; H332	>= 0.1 - < 1
phenylene ester, polymer with		Skin Irrit. 2; H315	
.alphahydroomega		Eye Irrit. 2A; H319	
hydroxypoly(oxy-1,2-ethanediyl)		Resp. Sens. 1; H334	
		Skin Sens. 1; H317	
		STOT SE 3; H335	
		STOT RE 2; H373	
2,4-dioxo-1,3-diazetidine-1,3-	17589-24-1	Acute Tox. 4; H332	>= 0.1 - < 1
diylbis[p-phenylenemethylene-p-		Skin Irrit. 2; H315	
phenylene] diisocyanate		Eye Irrit. 2A; H319	
		Resp. Sens. 1; H334	
		Skin Sens. 1; H317	
		STOT SE 3; H335	
		STOT RE 2; H373	

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled : Move to fresh air.



Revision Date 09/26/2019 Print Date 09/26/2019

Consult a physician after significant exposure.

In case of skin contact Take off contaminated clothing and shoes immediately.

> Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

irritant effects sensitizing effects

Asthmatic appearance

Cough

Respiratory disorder Allergic reactions

Headache

Causes skin and eye irritation. May cause an allergic skin reaction.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Notes to physician Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: : tive equipment and emer-

gency procedures

Use personal protective equipment.

Deny access to unprotected persons.



Revision Date 09/26/2019 Print Date 09/26/2019

Environmental precautions : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for

containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Store in original container.

Keep in a well-ventilated place. Observe label precautions.

Store in accordance with local regulations.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
4,4'-methylenediphenyl diiso- cyanate	101-68-8	TWA	0.005 ppm	ACGIH
		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA P0
methylenediphenyl diisocya-	26447-40-5	С	0.02 ppm	OSHA Z-1



Revision Date 09/26/2019 Print Date 09/26/2019

nate			0.2 mg/m3	
		С	0.02 ppm 0.2 mg/m3	OSHA P0
Isocyanic acid, polymeth- ylenepolyphenylene ester, polymer with .alphahydro- .omegahydroxypoly(oxy-1,2- ethanediyl)	57636-09-6	TWA	0.005 ppm	ACGIH
		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA P0
2,4-dioxo-1,3-diazetidine-1,3-diylbis[p-phenylenemethylene-p-phenylene] diisocyanate	17589-24-1	TWA	0.005 ppm	ACGIH
		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA P0

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concen-



Revision Date 09/26/2019

Print Date 09/26/2019

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Color : black

Odor : mild, mint-like

Odor Threshold : No data available

pH : Not applicable

Melting point/range / Freezing :

point

No data available

Boiling point/boiling range : No data available

Flash point : (Method: Tag closed cup)

Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : < 1 hpa

Relative vapor density : No data available

Density : 1.0796 g/cm3

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n- : No data available



Revision Date 09/26/2019

Date 03/20/2013

octanol/water

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm2/s

Explosive properties : No data available

Oxidizing properties : No data available

Volatile organic compounds : 7 g/l

(VOC) content A+B Combined

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if inhaled.

Components:

Diphenylmethanediisocyanate, polymeric:

Acute oral toxicity : LD50 Oral (Rat): > 10,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Expert judgment

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Acute dermal toxicity : LD50 Dermal (Rabbit): > 9,400 mg/kg

4,4'-methylenediphenyl diisocyanate:



Revision Date 09/26/2019 Print Date 09/26/2019

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

Test atmosphere: dust/mist Method: Expert judgment

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes eye irritation.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Group 2B: Possibly carcinogenic to humans

carbon black 1333-86-4

OSHA Not applicable

NTP Not applicable

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : Carbon black (1333-86-4)

Animal Toxicity:

Rat, oral, duration 2 year

Effect: no tumors

Mouse, oral, duration 2 years

Effect: no tumors

Mouse, dermal, duration 18 months

Effect: no skin tumors



Revision Date 09/26/2019 P

Rat, inhalation, duration 2 years

Target organ: lungs

Effect: inflammation, fibrosis, tumors

Note: Tumors in the rat lung are considered to be related to the "particle overload phenomenon" rather than to a specific chemical effect of carbon black itself in the lung. These effects in rats have been reported in many studies on other poorly soluble inorganic particles and appear to be rat specific. Tumors have not been observed in other species (i.e., mouse and hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions. Mortality studies (human data): A study on carbon black production workers in the UK (Sorahan, 2001) found an increased risk of lung cancer in two of the five plant studied; however, the increase was not related to the dose of carbon black. Thus, the authors did not consider the increased risk in lung cancer to be due to carbon black exposure. A German study of carbon black workers at one plant (Morfeld, 2006; Buechte, 2006) found a similar increase in lung cancer risk but, like the Sorohan, 2001 (UK study) found no association with carbon black exposure. A large US study of 18 plants showed a reduction in lung cancer risk in carbon black production workers (DEII, 2006). Based upon these studies, the February 2006 Working Group at the International Agency for Research on Cancer (IARC) concluded that the human evidence for carcinogenicity was inadequate (IARC, 2010). Since the IARC evaluation of carbon black, Sorahan and Harrington (2007) have re-analyzed the UK study data using an alternative exposure hypothesis and found a positive association with carbon black exposure in two of the five plants. The same exposure hypothesis was applied by Morfeld and McCunney (2009) to the German cohort; in contrast, they found no association between carbon black exposure and lung cancer risk and, thus, no support for the alternative exposure hypothesis used by Sorahan and Harrington. Overall, as a result of these detailed investigations, no causative link between carbon black exposure and cancer risk in humans has been demonstrated.

IARC CANCER CLASSIFICATION: In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly carcinogenic to humans" (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010).

Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause



Revision Date 09/26/2019 Print Date 09/26/2019

cancer in animals (Group 2B).

ICGIH CANCER CLASSIFICATION: Confirmed Animal Carcinogen with Unknown Relevance to Humans (Category A3 Carcinogen).

ASSESMENT: Applying the guidelines of self-classification under the Globally Harmonized System of Classification and Labeling of Chemicals, carbon black is not classified as a carcinogen. Lung tumors are induced in rats as a result of repeated exposure to inert, poorly soluble particles like carbon black and other poorly soluble particles. Rats tumors are a result of a secondary non-genotoxic mechanism that has questionable relevance for classification in humans. In support of this opinion, the CLP Guidance for Specific Target Organ Toxicity - Repeated Exposure (STOT-RE), cites lung overload under mechanisms not relevant to humans. Human health studies show that exposure to carbon black does not increase the risk to carcinogenicity.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Diphenylmethanediisocyanate, polymeric:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 1,640

mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

Do not empty into drains; dispose of this material and its container in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.



Revision Date 09/26/2019 Print Date 09/26/2019

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitization

Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:



Revision Date 09/26/2019 Print Date 09/26/2019

Diphenylme- 9016-87-9 >= 30 - < 50 %

thanediisocyanate, polymeric

4,4'- 101-68-8 >= 30 - < 50 %

methylenediphenyl diisocyanate

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

4,4'-methylenediphenyl 101-68-8 >= 30 - < 50 %

diisocyanate

California Prop 65 MARNING: Cancer – www.P65Warnings.ca.gov

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA PO : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average

OSHA P0 / C : Ceiling limit
OSHA Z-1 / C : Ceiling

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 09/26/2019

000000605366

US / Z8

Seam Cleaner



Revision Date 05/04/2018 Print Date 05/04/2018

1. Identification

Product name : Seam Cleaner

Supplier : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Flammable liquids, Category 2 Eye irritation, Category 2A

Specific target organ systemic toxicity - single exposure, Category 3, Central

nervous system

H225: Highly flammable liquid and vapor. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness.

GHS label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statements : Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

Seam Cleaner



Revision Date 05/04/2018 Print Date 05/04/2018

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell. P337 + P313 If eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Warning

: Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

Chemical name	CAS-No.	Concentration (%)
acetone	67-64-1	>= 50 - <= 100 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Seam Cleaner



Revision Date 05/04/2018 Print Date 05/04/2018

4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: irritant effects

Respiratory disorder Excessive lachrymation

Loss of balance

Vertigo

See Section 11 for more detailed information on health effects

and symptoms.

Causes serious eye irritation. May cause drowsiness or dizziness.

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: Water

Specific extinguishing

methods

: Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.



Revision Date 05/04/2018 Print Date 05/04/2018

for fire-fighters

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons.

Beware of vapors accumulating to form explosive

concentrations. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

7. Handling and storage

Advice on safe handling : Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Store in original container.

Store in cool place.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

Materials to avoid : No data available

8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
acetone	67-64-1	ACGIH	TWA	250 ppm



Revision Date 05/04/2018 Print Date 05/04/2018

	ACGIH	STEL	500 ppm
	OSHA Z-1	TWA	1,000 ppm 2,400 mg/m3
	OSHA P0	TWA	750 ppm 1,800 mg/m3
	OSHA P0	STEL	1,000 ppm 2,400 mg/m3

^{*}The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust

concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection Remarks

Eye protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the



Revision Date 05/04/2018 Print Date 05/04/2018

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the

oroduct.

Remove respiratory and skin/eye protection only after vapors

have been cleared from the area.

Remove contaminated clothing and protective equipment

before entering eating areas.

9. Physical and chemical properties

Appearance : liquid

Color : colorless

Odor : sweet

pungent

Odor Threshold : No data available

Flash point : 1 °F (-17 °C)

Autoignition temperature : 869 °F (465 °C)

Decomposition temperature : No data available

Lower explosion limit (Vol%) : 2.5 %(V)

Upper explosion limit (Vol%) : 13 %(V)

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

pH : ca. 7

Melting point/freezing point : -137 °F (-94 °C)

Boiling point/boiling range : 133.0 °F (56.1 °C)

Vapor pressure : 181 mmHg (241 hpa)

at 68 °F (20 °C)

Density : 0.790 g/cm3

Water solubility : Note: completely soluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : ca.> 20.5 mm2/s

at 104 °F (40 °C)



Revision Date 05/04/2018

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds

(VOC) content

0 g/l with exemption; 790 g/l without Acetone exemption.

* The U.S. EPA, SCAQMD and others consider the solvent in Seam Cleaner as "exempt", and therefore the product's VOC content can be considered "0

g/l" and used in all jurisdictions operating under these guidelines.

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : No data available

11. Toxicological information

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.



Revision Date 05/04/2018 Print Date 05/04/2018

Aspiration toxicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

NTP Not applicable

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

Component:

acetone 67-64-1 <u>Toxicity to fish:</u>

LC50

Species: Fish Dose: > 5,000 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50

Species: Daphnia Dose: 12.700 mg/l Exposure time: 48 h

Toxicity to algae:

ErC50

Species: Pseudokirchneriella subcapitata (green algae)

Dose: > 530 mg/l Exposure time: 96 h

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

UN number 1090



Revision Date 05/04/2018

Description of the goods Acetone Class 3 Packing group Ш

Labels **Emergency Response**

Guidebook Number

3 127

IMDG

1090 UN number Description of the goods **ACETONE**

Class 3 Ш Packing group Labels 3 EmS Number 1 F-E EmS Number 2 S-D

Marine pollutant no

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.



Revision Date 05/04/2018 Print Date 05/04/2018

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion

Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65

MARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Safety Data Sheet

Seam Cleaner



Revision Date 05/04/2018

Print Date 05/04/2018

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 05/04/2018

Material number: 469588



MSDSFILE: STAPE PRINT DATE: 11/13/2006 REVISION DATE: 1/02/2007

Material Safety Data Sheet

(Complies with 29 CFR 1910.1200 Hazard Communication Standard)

SECTION 1 Product and Company Identification

TRADE NAME: Sarnatape

Butyl Sealant Complex Mixture SYNONYMS:

MANUFACTURER: Sika Sarnafil Inc.

ADDRESS: 100 Dan Road, Canton, MA 02021-2842

EMERGENCY NUMBERS: CHEMTRAC Transportation Emergency (24 hr.) (800) 424-9300 (800) 451-2504

MSDS and Product Information (MF, 8:30am-5:00pm EST)

SECTION 2 Information on Hazardous Ingredients

CHEMICAL/COMMON NAME	CAS NUMBER	<u>PERCENT</u>	OSHA-PEL	ACGIH-TLV
Talc	14807-96-6		20 mppcf	2 mg/m3
Titanium Dioxide	13463-67-7		15 mg/m3	10 mg/m3
Calcium Carbonate	1317-65-3		5 mg/m3	10 mg/m3
Hydrated Amorphous Silica	63231-67-4		15 MCM	
Carbon Black	1333-86-4		3.5 mg/m3	3.5 mg/m3

SECTION 3 Hazards Identification

EYES: Eye contact unlikely in normal use, but acts as a mechanical irritant.

SKIN: None.

INHALATION: No inhalation effects known.

INGESTION: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SYMPTOMS: See above information.

SECTION 4 First Aid Measures

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical

attention.

SKIN: In accordance with good hygienic practice, wash s kin with soap and water.

INHALATION: Move to fresh air. If not breathing, give artificial respiration and seek medical attention immediately.

Trained personnel should only administer oxygen. Consult with physician.

INGESTION: If swallowed, do NOT induce vomiting. If discomfort persists, call a physician.



MSDSFILE: STAPE PRINT DATE: 11/13/2006
REVISION DATE: 1/02/2007

SECTION 5 Fire Fighting Measures

FLASH POINT (F/ C) LEL (volume %) UEL (volume %)

400° F / 204° C N/A N/A

Extinguishing Media: Alcohol resistant foam, dry chemical, carbon dioxide, water-spray.

Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus and full protective gear as

appropriate for surrounding fires.

Unusual Hazards: None

Combustion Products: May form carbon dioxide and carbon monoxide and hydrocarbons upon combustion.

SECTION 6 Accidental Release Measures

Scrape or pick up material into suitable container for disposal. Use a non-flammable solvent to clean contaminated surface thoroughly.

SECTION 7 Handling and Storage

Store in a cool dry location. Keep away from children, food, drink and animal feeding.

SECTION 8 Exposure Controls / Personal Protection

Engineering Controls: No special ventilation required.

Personal Protective Equipment:

EYES: None required.

SKIN: None required.

RESPIRATORY: In case of insufficient ventilation, wear suitable NIOSH approved respirator, self-contained

breathing apparatus, or air-supplied respirators dependent on concentration.

Exposure Guidelines:

 CHEMICAL
 OSHA PEL
 ACGIH TLV

 Talc
 20 mppcf
 2 mg/m3

 Titanium Dioxide
 15 mg/m3
 10 mg/m3

 Calcium Carbonate
 5 mg/m3
 10 mg.m3

Hydrated Amorphous Silica 15 MCM

Carbon Black 3.5 mg/m3 3.5 mg/m3

PEL = Permissible Exposure Limits TWA = Time Weighted Average (8 hr.)
TLV = Threshold Limit Value STEL = Short Term Exposure Limit (15 min.)



MSDSFILE: STAPE PRINT DATE: 11/13/2006
REVISION DATE: 1/02/2007

SECTION 9 Physical and Chemical Properties

APPEARANCE Putty

ODOR: NA

BOILING POINT (@ 760 mm Hg): NA

SPECIFIC GRAVITY: 1.35

<u>LIQUID DENSITY</u>: NA

SOLUBILITY IN WATER: Insoluble

% VOLATILE VOLUME 0%

EVAPORATION RATE (Butyl Acetate=1): N/A

VAPOR PRESSURE (mm Hg): NA

VAPOR DENSITY (air=1): NA

SECTION 10 Stability and Reactivity

CONDITIONS TO AVOID:

None known.

INCOMPATABILITY WITH OTHER MATERIALS:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Fire may produce carbon monoxide, carbon dioxide, and hydrocarbons.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 11 Toxicological Information

Toxicological information is not available.

SECTION 12 Ecological Information

Ecological information is not available.

SECTION 13 Disposal Considerations

Dispose in accordance with applicable Federal, State, and Local environmental regulations.



MSDSFILE: STAPE PRINT DATE: 11/13/2006
REVISION DATE: 1/02/2007

SECTION 14 Transportation Information

This material is exempt from D.O.T. labeling being packaged as a Consumer Commodity.

D.O.T. Primary Hazard Label:

D.O.T. Hazard Class:

D.O.T. Identification Number (UN/NA):

D.O.T. Packing Group:

Not Regulated

Not Regulated

Not Regulated

SECTION 15 Regulatory Information

U.S. Federal Regulations

SARA 302 Status:

This product does NOT contain chemicals subject to SARA 302 reporting.

SARA 313 Chemicals:

This product does NOT contain toxic chemicals subject to the reporting requirements of SARA Title III, Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

State Regulations

CALIFORNIA SAFE DRINKING ACT (PROP 65 for Carcinogen and Teratogen):

This product does NOT contain any chemicals currently on the California List of Known Carcinogens and Reproductive Toxins.

SECTION 16 Other Information

	<u>HMIS</u>	<u>NFPA</u>
HEALTH:	0	
FLAMMABILITY:	1	1
REACTIVITY:	0	0
PERSONAL PROTECTION:	В	

Sika Sarnafil Inc. Disclaimer of Expressed and Implied Warranties

The information in this Material Safety Data Sheet is offered in good faith as accurate at the date of issuance. No warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving it shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of use thereof. Compliance with all applicable Federal, State, and Local laws and regulations remains the responsibility of the user.



MSISFILE: STHERM PRINT DATE: 11/20/2006
REVISION DATE: 1/2/07

Material Safety Information Sheet

(According to 29 CFR 1910.1200(b)(6)(v) this material is an article. No labeling or MSDS reporting is required.)

SECTION 1 Product and Company Identification

TRADE NAME: Sarnatherm Styrene SYNONYMS: Foamular Board

MANUFACTURER: Sika Sarnafil Inc.

ADDRESS: 100 Dan Road, Canton, MA 02021-2842

EMERGENCY NUMBERS: CHEMTRAC Transportation Emergency (24 hr.) (800) 424-9300

MSDS and Product Information (M-F, 8:30am -5:00pm EST) (800) 451-2504

SECTION 2 Information on Hazardous Ingredients

This material is considered an article according to 29 CFR 1910.1200(b)(6)(v). An article is by definition a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees.

An MSDS is required only for chemicals in products that are hazardous as defined by the OSHA standard 29 CFR 1910.1200(g). This Material Safety Information Sheet is provided in lieu of a Material safety Data Sheet.

CHEMICAL/COMMON NAME	CAS NUMBER	PERCENT	OSHA-PEL	ACGIH-TLV
Polystyrene	9003-53-6	80-90 %	not listed	not listed
1,1,1 Chlorodifluoroethane HFC-142b	75-68-3	10-15 %	not listed	not listed
Hexabromocyclododecane	3194-55-6	0.5-1.5 %	not listed	not listed

SECTION 3 Hazards Identification

EYES: Irritation, redness, tearing, and blurred vision may occur with exposure.

SKIN: Prolonged skin contact may cause skin irritation.

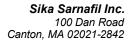
INHALATION: Dust may cause temporary irritation and coughing. High concentrations of ethyl chloride and

chlorodifluorethane blowing agents may cause CNS depression, anesthetic effects, and irregular

heartbeats

INGESTION: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SYMPTOMS: No long-term health effects are expected.





MSISFILE: STHERM PRINT DATE: 11/20/2006
REVISION DATE: 1/2/07

SECTION 4 First Aid Measures

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical

attention.

SKIN: Wash skin with mild soap and plenty of water.

INHALATION: Move person to fresh air. If not breathing, give oxygen and seek medical attention immediately.

Trained personnel should only administer oxygen.

INGESTION: If swallowed, rinse person s mouth thoroughly with water and seek medical attention. ONLY induce

vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

SECTION 5 Fire Fighting Measures

FLASH POINT (F/ C) LEL (volume %) UEL (volume %)

670 F/ 354 C PMCC N/A N/A

Extinguishing Media: Dry chemical, carbon dioxide, and large volumes of water directly on flame and burning

surface.

Fire Fighting Procedures: Wear a self-contained breathing apparatus in a sustained fire. Full protective bunker

Turnout gear should be used by fire fighting forces.

Unusual Hazards: Material produces dense black smoke while burning. Grinding, sawing, or fabrication

activities can produce dust particles, which may under certain conditions form explosive

dust atmospheres that can be ignited.

Combustion Products: May form carbon dioxide, carbon monoxide, hydrogen bromide/chloride/fluoride, aromatic

hydrocarbons (styrene & ethylbenzene).

SECTION 6 Accidental Release Measures

Use normal cleanup procedure for solid materials.

SECTION 7 Handling and Storage

Store material away from heat and flame.

SECTION 8 Exposure Controls / Personal Protection

Engineering Controls: Mechanical ventilation may be necessary if working with the product in enclosed areas due

to high dust levels from grinding, sawing, or fabrication activities.

Personal Protective Equipment:

EYES: Safety glasses. Consult your safety representative.

SKIN: N/A

RESPIRATORY: NIOSHapproved disposable dust respirator is recommended when high dust levels

are encountered (3M model 8210, 8710, or in high humidity environments Model 9900). Use respiratory protection in accordance with your company's respiratory protection

program, local regulations and OSHA 29 CFR 1910.134



MSISFILE: STHERM PRINT DATE: 11/20/2006
REVISION DATE: 1/2/07

SECTION 8 Exposure Controls / Personal Protection, Continued. . .

Exposure Guidelines:

CHEMICAL OSHA PEL ACGIH TLV

Polystyrene not listed not listed

1,1,1 Chlorodifluoroethane HFC-142b not listed not listed

Hexabromocyclododecane not listed not listed

PEL = Permissible Exposure Limits TWA = Time Weighted Average (8 hr.)
TLV = Threshold Limit Value STEL = Short Term Exposure Limit (15 min.)

SECTION 9 Physical and Chemical Properties

APPEARANCE Rigid Cellular Foam Board

ODOR: No odor

BOILING POINT (@ 760 mm Hg): N/A

SPECIFIC GRAVITY: 0.027 to 0.064

LIQUID DENSITY: N/AI

SOLUBILITY IN WATER: Insoluble

% VOLATILE VOLUME: N/A

EVAPORATION RATE (N-Butyl Acetate=1): N/A

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (air=1): N/A

SECTION 10 Stability and Reactivity

CONDITIONS TO AVOID:

Excessive dust particles may under certain condition form explosive atmospheres that can be ignited. Avoid high temperatures $>482\ F/250\ C$

INCOMPATABILITY WITH OTHER MATERIALS:

Avoid aromatic hydrocarbons, high aliphatic hydrocarbons, esters, amines, and higher aldehydes.

HAZARDOUS DECOMPOSITION PRODUCTS:

May form carbon dioxide, carbon monoxide, hydrogen bromide/chloride/fluoride, aromatic hydrocarbons (styrene & ethylbenzene).

HAZARDOUS POLYMERIZATION:

Will NOT undergo hazardous polymerization.



MSISFILE: STHERM PRINT DATE: 11/20/2006
REVISION DATE: 1/2/07

SECTION 11 Toxicological Information

Toxicological information is not available.

SECTION 12 Ecological Information

Ecological information is not available.

SECTION 13 Disposal Considerations

This polystyrene foam plastic is recyclable. If recycling is not an option, bury in approved landfill or burn in an adequate incinerator with excess oxygen. Dispose in accordance with applicable Federal, State, and Local regulations.

SECTION 14 Transportation Information

D.O.T. Primary Hazard Label:

D.O.T. Hazard Class:

D.O.T. Identification Number (UN/NA):

D.O.T. Packing Group:

Not Regulated

Not Regulated

Not Regulated

SECTION 15 Regulatory Information

U.S. Federal Regulations

SARA Title III, Section 302:

This product is NOT regulated under SARA Title III, Section 302 Extremely Hazardous Substances (40 CFR Part 355).

SARA Title III, Section 313:

This product does NOT contain toxic chemicals subject to the reporting requirements of SARA Title III, Section 313 (40 CFR 372) of the Emergency Planning and Community Right-To-Know Act of 1986.

State Regulations

CALIFORNIA SAFE DRINKING ACT (PROP 65 for Carcinogen and Teratogen):

This product does NOT contain any chemicals currently on the California List of Known Carcinogens and Reproductive Toxins.



MSISFILE: STHERM PRINT DATE: 11/20/2006
REVISION DATE: 1/2/07

SECTION 16 Other Information

Sika Sarnafil Inc. Disclaimer of Expressed and Implied Warranties

The information in this Material Safety Information Sheet is offered in good faith as accurate at the date of issuance. No warranty of merchantability, fitness for any particular purpose, or any other warranty is expressed or is to be implied regarding the accuracy or completeness of this information, the safety of this product, or the hazards related to its use. This information and product are furnished on the condition that the person receiving it shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of use thereof. Compliance with all applicable Federal, State, and Local laws and regulations remains the responsibility of the user.

Page 5 of 5 www.sikacorp.com (800) 451-2504



MEMO

SDS Requirement Explanation

Sika Corporation- Roofing is committed to full compliance with the United States Occupational Safety and Health Administration Hazard Communication standard found within 29 CFR 1910.1200. To that end, Sika provides to employees, shippers, customers, end users, and any other concerned parties Safety Data Sheets for all Sika Roofing chemical products which are defined below:

"...any chemical which is known to be present in the workplace in such a manner that employees may be exposed under normal conditions of use or in a foreseeable emergency."

Types of Sika Roofing Products that SDS's are provided for are: Adhesives, Sealants, Primers, Cleaners, Roof Coatings, etc.

Sika also sells many products that are classified as an 'Article' under 29 CFR 1910.1200 Hazard Communication. Any product that is classified as an article is not required to have an SDS. Those articles are defined below:

"Article means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees."

Types of Sika Products that are considered "articles" and do not have an SDS's are:
Roofing/Waterproofing Membranes, Insulation, Fasteners, Plates, Coverboards,
Vapor Retarders, Drains, Metal Flashings, Accessories, etc.



MEMO

SDS Requirement Explanation

Sika Corporation- Roofing is committed to full compliance with the United States Occupational Safety and Health Administration Hazard Communication standard found within 29 CFR 1910.1200. To that end, Sika provides to employees, shippers, customers, end users, and any other concerned parties Safety Data Sheets for all Sika Roofing chemical products which are defined below:

"...any chemical which is known to be present in the workplace in such a manner that employees may be exposed under normal conditions of use or in a foreseeable emergency."

Types of Sika Roofing Products that SDS's are provided for are: Adhesives, Sealants, Primers, Cleaners, Roof Coatings, etc.

Sika also sells many products that are classified as an 'Article' under 29 CFR 1910.1200 Hazard Communication. Any product that is classified as an article is not required to have an SDS. Those articles are defined below:

"Article means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical (as determined under paragraph (d) of this section), and does not pose a physical hazard or health risk to employees."

Types of Sika Products that are considered "articles" and do not have an SDS's are:
Roofing/Waterproofing Membranes, Insulation, Fasteners, Plates, Coverboards,
Vapor Retarders, Drains, Metal Flashings, Accessories, etc.



Revision Date 11/25/2013 Print Date 11/25/2013

1. Identification

Product name : Sarnavap® Self-Adhered Primer

Supplier : Sika Corporation

Address : 201 Polito Avenue

Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

ehs@sika-corp.com

Recommended use of the chemical and restrictions on

chemical and restrictions on use

For further information, refer to the product technical data

sheet.

2. Hazards identification

GHS Classification

Flammable liquids, Category 2 H225: Highly flammable liquid and vapor.

Skin irritation , Category 2 H315: Causes skin irritation.

Reproductive toxicity , Category 2 H361: Suspected of damaging fertility or the

unborn child.

Specific target organ systemic toxicity - single exposure, Category 3, Central

nervous system

Specific target organ systemic toxicity -

repeated exposure , Category 2

(Inhalation)

Aspiration hazard , Category 1

H373: May cause damage to organs through

H336: May cause drowsiness or dizziness.

prolonged or repeated exposure if inhaled.

H304: May be fatal if swallowed and enters

airways.

GHS Label element

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or

repeated exposure if inhaled.

Revision Date 11/25/2013 Print Date 11/25/2013

Precautionary Statements

: Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P281 Use personal protective equipment as required.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Warning

: Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Hazardous ingredients



Revision Date 11/25/2013 Print Date 11/25/2013

Chemical Name	CAS-No.	Concentration (%)
Toluene	108-88-3	>= 50 - <= 100 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

Risk of serious damage to the lungs (by aspiration).

irritant effects

Aspiration may cause pulmonary edema and pneumonitis.

Respiratory disorder

Erythema Dermatitis Loss of balance

Vertigo

See Section 11 for more detailed information on health effects

and symptoms.

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: Water

High volume water jet

Revision Date 11/25/2013 Print Date 11/25/2013

Specific hazards during fire

fighting

: Do not use a solid water stream as it may scatter and spread

Specific extinguishing

methods

: Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Remove all sources of ignition.

Deny access to unprotected persons.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

7. Handling and storage

Advice on safe handling

: Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage

Store in original container.

Store in cool place.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

Revision Date 11/25/2013 Print Date 11/25/2013

Materials to avoid : no data available

8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
Toluene	108-88-3	ACGIH	TWA	20 ppm
		OSHA Z-2	TWA	200 ppm
		OSHA Z-2	CEIL	300 ppm
		OSHA Z-2	Peak	500 ppm
		OSHA P0	TWA	100 ppm 375 mg/m3
		OSHA P0	STEL	150 ppm 560 mg/m3

^{*}The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Basis

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any

recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust

concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection

: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk

assessment indicates this is necessary.

The filter class for the respirator must be suitable for the

maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling



Revision Date 11/25/2013 Print Date 11/25/2013

the product. If this concentration is exceeded, self-contained

breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling

chemical products if a risk assessment indicates this is

necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the

product.

Remove respiratory and skin/eye protection only after vapors

have been cleared from the area.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

9. Physical and chemical properties

Appearance : liquid
Color : green

Odor : strong

solvent

Odor Threshold : no data available

Flash point : 27 °F (-3 °C)

Autoignition temperature : 896 °F (480 °C)

Decomposition temperature : no data available

Lower explosion limit (Vol%) : 1 %(V)

Upper explosion limit (Vol%) : 7 %(V)

Flammability (solid, gas) : no data available

Oxidizing properties : no data available

Autoignition temperature : no data available

pH : Note: not applicable

Melting point/range /

Freezing point

: no data available

Boiling point/boiling range

232 °F (111 °C)



Revision Date 11/25/2013 Print Date 11/25/2013

Vapor pressure : 21.750 mmHg (28.9975 hpa)

Density : ca.0.9 g/cm3

at 73 °F (23 °C)

Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

: no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : > 20.5 mm2/s

at 104 °F (40 °C)

Relative vapor density : no data available

Evaporation rate : no data available

Burning rate : no data available

Volatile organic compounds

(VOC) content

: 644 g/l

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : no data available

11. Toxicological information

Acute toxicity

Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation

Product

Revision Date 11/25/2013 Print Date 11/25/2013

Causes skin irritation.

Serious eye damage/eye irritation

Product

no data available

Respiratory or skin sensitization

Product

no data available

Germ cell mutagenicity

Product

Mutagenicity : no data available

Carcinogenicity

Product

Carcinogenicity : no data available

IARC not applicable
NTP not applicable

Reproductive Toxicity/Fertility

Product

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Reproductive Toxicity/Development/Teratogenicity

Product

Teratogenicity : no data available

STOT-single exposure

Product

Assessment: May cause drowsiness or dizziness.

STOT-repeated exposure

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Product

Assessment: May cause damage to organs through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Product

May be fatal if swallowed and enters airways.

Safety Data Sheet

Sarnavap® Self-Adhered Primer

Revision Date 11/25/2013 Print Date 11/25/2013

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

UN number 1133

Description of the goods Adhesives

Class 3
Packing group II
Labels 3
Emergency Response 128

Guidebook Number

IATA

UN number 1133
Description of the goods Adhesives

Class 3
Packing group II
Labels 3
Packing instruction (cargo 364

aircraft)

Packing instruction 353

(passenger aircraft)

Packing instruction Y341

(passenger aircraft)

IMDG

UN number 1133

Description of the goods ADHESIVES

Class 3
Packing group II
Labels 3
EmS Number 1 F-E
EmS Number 2 S-D

Safety Data Sheet

√ Sarnavap® Self-Adhered Primer

Revision Date 11/25/2013 Print Date 11/25/2013

Marine pollutant no

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

no data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard Chronic Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Toluene 108-88-3 99.00 %

Clean Air Act

Ozone-Depletion

Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

Toluene 108-88-3 99.00 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.



Revision Date 11/25/2013

Print Date 11/25/2013

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop 65

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 11/25/2013

Material number: 185991

SAFETY DATA SHEET

Sarnavap® Self-Adhered Primer VC



Version Revision Date: SDS Number: 1.0 10/11/2017 100000009670

SECTION 1. IDENTIFICATION

Product name Sarnavap® Self-Adhered Primer VC

Manufacturer or supplier's details

Company name 601, avenue Delmar

Canada

Pointe-Claire, QC H9R 4A9

Sika Canada Inc. www.sika.ca

Telephone : (514) 697-2610 / 1 (800) 933-7452

Telefax (514) 694-2792

Health and Safety Services's : ehs@ca.sika.com

e-mail address

Emergency telephone CANUTEC (collect) (613) 996-6666 (24 hours)

Recommended use of the chemical and restrictions on use

For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 2

Eye irritation : Category 2A

ic toxicity - single exposure

Specific target organ system: Category 3 (Central nervous system)

GHS label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary Statements Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames



 Version
 Revision Date:
 SDS Number:

 1.0
 10/11/2017
 100000009670

and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Warning

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Other hazards

None known.

Supplemental information

If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
methyl acetate	79-20-9	>= 40 - < 50

SAFETY DATA SHEET

Sarnavap® Self-Adhered Primer VC



 Version
 Revision Date:
 SDS Number:

 1.0
 10/11/2017
 100000009670

tert-butyl acetate | 540-88-5 | >= 30 - < 40

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms

and effects, both acute and

delayed

irritant effects

Respiratory disorder Excessive lachrymation

Loss of balance

Vertigo

See Section 11 for more detailed information on health effects

and symptoms.

Causes serious eye irritation. May cause drowsiness or dizziness.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: Water

High volume water jet

Specific hazards during fire

fighting

: Do not use a solid water stream as it may scatter and spread

fire.

Further information : Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This



Version Revision Date: SDS Number: 1.0 10/11/2017 100000009670

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

tive equipment and emergency procedures

Personal precautions, protec- : Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons.

Beware of vapors accumulating to form explosive concentra-

tions. Vapors can accumulate in low areas.

Prevent product from entering drains. **Environmental precautions**

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Use explosion-proof equipment. Keep away from

heat/sparks/open flames/hot surfaces. No smoking. Take pre-

cautionary measures against electrostatic discharges.

: Do not breathe vapors or spray mist. Advice on safe handling

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage Store in original container.

Store in cool place.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.



 Version
 Revision Date:
 SDS Number:

 1.0
 10/11/2017
 100000009670

Store in accordance with local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
methyl acetate	79-20-9	TWA	200 ppm 606 mg/m3	CA AB OEL
		STEL	250 ppm 757 mg/m3	CA AB OEL
		TWA	200 ppm	CA BC OEL
		STEL	250 ppm	CA BC OEL
		TWAEV	200 ppm 606 mg/m3	CA QC OEL
		STEV	250 ppm 757 mg/m3	CA QC OEL
		TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
tert-butyl acetate	540-88-5	TWA	200 ppm 950 mg/m3	CA AB OEL
		TWA	200 ppm	CA BC OEL
		TWAEV	200 ppm 950 mg/m3	CA QC OEL

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

SAFETY DATA SHEET

Sarnavap® Self-Adhered Primer VC



 Version
 Revision Date:
 SDS Number:

 1.0
 10/11/2017
 10000009670

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove respiratory and skin/eye protection only after vapors

have been cleared from the area.

Remove contaminated clothing and protective equipment

before entering eating areas.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : green

Odor : solvent

Odor Threshold : No data available

pH : No data available

Melting point/range / Freezing

poin[,]

: No data available

Boiling point/boiling range : No data available

Flash point : -10 °C (14 °F)

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : 0.1 hpa (0.1 mmHg)

Relative vapor density : No data available

Density : ca. 0.94 g/cm3 (20 °C (68 °F) ())

Solubility(ies)

Water solubility : insoluble

SAFETY DATA SHEET

Sarnavap® Self-Adhered Primer VC



 Version
 Revision Date:
 SDS Number:

 1.0
 10/11/2017
 100000009670

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm2/s (40 °C)

Explosive properties : No data available

Molecular weight : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac-

tions

: Stable under recommended storage conditions. Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : No data available

No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

SAFETY DATA SHEET

Sarnavap® Self-Adhered Primer VC



 Version
 Revision Date:
 SDS Number:

 1.0
 10/11/2017
 100000009670

NTP Not applicable

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

: Do not empty into drains; dispose of this material and its con-

tainer in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

SAFETY DATA SHEET

Sarnavap® Self-Adhered Primer VC



 Version
 Revision Date:
 SDS Number:

 1.0
 10/11/2017
 100000009670

TDG (road/train)

UN number : UN 1133
Proper shipping name : ADHESIVES

Class : 3
Packing group : II
Labels : 3

International Regulations

IATA-DGR

UN/ID No. : UN 1133 Proper shipping name : Adhesives

Class : 3 Packing group : II

Labels : Flammable Liquids

364

Packing instruction (cargo

aircraft)

Packing instruction (passen: 353

ger aircraft)

IMDG-Code

UN number : UN 1133 Proper shipping name : ADHESIVES

Class : 3
Packing group : II
Labels : 3

EmS Code : F-E, S-D Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Revision Date : 10/11/2017

Prepared by : R & D of Sika Canada Inc.

Notice to Reader:

The information contained in this Material Safety Data Sheet applies only to the actual Sika Canada product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the



 Version
 Revision Date:
 SDS Number:

 1.0
 10/11/2017
 100000009670

product's current Product Data Sheet, product label and Material Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sika.ca or 514-697-2610.

Full text of other abbreviations

ADR Accord européen relatif au transport international des marchandises

Dangereuses par Route

CAS Chemical Abstracts Service
DNEL Derived no-effect level

EC50 Half maximal effective concentration

GHS Globally Harmonized System

IATA International Air Transport Association

IMDG International Maritime Code for Dangerous Goods

LD50 Median lethal dosis (the amount of a material, given all at once, which

causes the death of 50% (one half) of a group of test animals)

LC50 Median lethal concentration (concentrations of the chemical in air that

kills 50% of the test animals during the observation period)

MARPOL International Convention for the Prevention of Pollution from Ships, 1973

as modified by the Protocol of 1978

OEL Occupational Exposure Limit

PBT Persistent, bioaccumulative and toxic PNEC Predicted no effect concentration

REACH Regulation (EC) No 1907/2006 of the European Parliament and of the

Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a

European Chemicals Agency

SVHC Substances of Very High Concern

vPvB Very persistent and very bioaccumulative

CA / Z8

Revision Date 11/25/2013 Print Date 11/25/2013

1. Identification

Product name Sarnavap® Self-Adhered Primer WB

Supplier Sika Corporation

Address 201 Polito Avenue

Lyndhurst, NJ 07071

USA

www.sikausa.com

(201) 933-8800 Telephone

Telefax (201) 804-1076

Emergency telephone CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

ehs@sika-corp.com

Recommended use of the

chemical and restrictions on

For further information, refer to the product technical data

sheet.

2. Hazards identification

GHS Classification

Specific target organ systemic toxicity repeated exposure, Category 2, Kidney

, Liver

use

H373: May cause damage to organs through

prolonged or repeated exposure.

GHS Label element

Hazard pictograms



Signal Word

Hazard Statements : H373 May cause damage to organs (Kidney, Liver) through

prolonged or repeated exposure.

Precautionary Statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

Response:

P314 Get medical advice/ attention if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

See Section 11 for more detailed information on health effects and symptoms.



Revision Date 11/25/2013 Print Date 11/25/2013

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
ethanediol	107-21-1	>= 1 - < 2 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: No known significant effects or hazards.

See Section 11 for more detailed information on health effects

and symptoms.

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific extinguishing

methods

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

Revision Date 11/25/2013 Print Date 11/25/2013

for fire-fighters

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Environmental precautions : Use personal protective equipment. Deny access to unprotected persons.

: Try to prevent the material from entering drains or water

courses.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

7. Handling and storage

Advice on safe handling : Avoid exceeding the given occupational exposure limits (see

section 8).

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Store in accordance with local regulations.

Materials to avoid : no data available

8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
ethanediol	107-21-1	OSHA P0	С	50 ppm 125 mg/m3
		ACGIH	С	100 mg/m3

Safety Data Sheet

Sarnavap® Self-Adhered Primer WB

Revision Date 11/25/2013 Print Date 11/25/2013

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Basis

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

Engineering measures : Use of adequate ventilation should be sufficient to control

worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any

recommended or statutory limits.

Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed

respirator complying with an approved standard if a risk

assessment indicates this is necessary.

The filter class for the respirator must be suitable for the

maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained

breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

Remove contaminated clothing and protective equipment

before entering eating areas.

9. Physical and chemical properties

Appearance : liquid
Color : blue

Odor : no data available

Revision Date 11/25/2013 Print Date 11/25/2013

Odor Threshold : no data available

Flash point : ca. $> 212 \,^{\circ}\text{F} \, (> 100 \,^{\circ}\text{C})$

Ignition temperature : not applicable

Decomposition temperature : no data available

Lower explosion limit (Vol%) : no data available

Upper explosion limit (Vol%) : no data available

Flammability (solid, gas) : no data available

Oxidizing properties : no data available

Autoignition temperature : no data available

pH : 8

at

73 °F (23 °C)

Melting point/range /

Freezing point

no data available

Boiling point/boiling range : $212 \, ^{\circ}F (100 \, ^{\circ}C)$

Vapor pressure : no data available

Density : 1 g/cm3

at 73 °F (23 °C)

Water solubility : Note: soluble

Partition coefficient: n-

octanol/water

no data available

Viscosity, dynamic

: no data available

Viscosity, kinematic : ca.> 20.5 mm2/s

at 104 °F (40 °C)

Relative vapor density : no data available

Evaporation rate : no data available

Burning rate : no data available

Volatile organic compounds

(VOC) content

: 3 g/l

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Safety Data Sheet



Revision Date 11/25/2013

Sarnavap® Self-Adhered Primer WB

Print Date 11/25/2013

Conditions to avoid : no data available

Incompatible materials : no data available

11. Toxicological information

Acute toxicity

Product

Acute oral toxicity : no data available

: no data available Acute inhalation toxicity

Acute dermal toxicity : no data available

Skin corrosion/irritation

Product

no data available

Serious eye damage/eye irritation

Product

no data available

Respiratory or skin sensitization

Product

no data available

Germ cell mutagenicity

Product

: no data available Mutagenicity

Carcinogenicity

Product

: no data available Carcinogenicity

IARC not applicable **NTP** not applicable

Reproductive Toxicity/Fertility

Product

Reproductive toxicity : no data available

Reproductive Toxicity/Development/Teratogenicity

Product

Safety Data Sheet

Sarnavap® Self-Adhered Primer WB

Revision Date 11/25/2013 Print Date 11/25/2013

Teratogenicity : no data available

STOT-single exposure

Product

Assessment: no data available

STOT-repeated exposure

Product

Assessment: no data available

Aspiration toxicity

Product

no data available

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Special precautions for user

no data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Revision Date 11/25/2013 Print Date 11/25/2013

not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

ethanediol 107-21-1 1.00 %

Clean Air Act

Ozone-Depletion

Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

ethanediol 107-21-1 1.00

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop 65 This product does not contain any chemicals known to the State

of California to cause cancer, birth, or any other reproductive

defects.

16. Other information

Revision Date 11/25/2013

Print Date 11/25/2013

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 11/25/2013

Material number: 185997

Revision Date 01/20/2020 Print Date 01/20/2020

SECTION 1. IDENTIFICATION

Product name : Sikaflex®-1A Company name : Sika Corporation

> 201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the

chemical and restrictions on

use

For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Carcinogenicity (Inhalation) : Category 1A

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 2

GHS label elements

Hazard pictograms



Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

H350 May cause cancer by inhalation.

H373 May cause damage to organs through prolonged or re-

peated exposure if inhaled.



Revision Date 01/20/2020 Print Date 01/20/2020

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

P284 Wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

Intentional misuse by deliberate concentration and inhalation of vapor may be harmful or fatal.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra-
			tion (% w/w)
xylene	1330-20-7	Flam. Liq. 3; H226	>= 1 - < 5
		Acute Tox. 4; H332	
		Acute Tox. 4; H312	
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		STOT SE 3; H335	
		STOT RE 2; H373	
		Asp. Tox. 1; H304	
Quartz (SiO2)	14808-60-7	Carc. 1A; H350i	>= 0.1 - < 1
, ,		STOT RE 1; H372	



Revision Date 01/20/2020 Print Date 01/20/2020

		STOT SE 3; H335	
ethylbenzene	100-41-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 Carc. 2; H351 STOT RE 2; H373 Asp. Tox. 1; H304 Eye Irrit. 2A; H319	>= 0.1 - < 1
Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol	53317-61-6	Eye Irrit. 2A; H319 Skin Sens. 1; H317	>= 0.1 - < 1
4,4'-methylenediphenyl diisocyanate	101-68-8	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

Asthmatic appearance Allergic reactions

sensitizing effects

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause cancer by inhalation.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES



Revision Date 01/20/2020 Print Date 01/20/2020

Suitable extinguishing media Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment:

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment. Deny access to unprotected persons.

Environmental precautions Do not flush into surface water or sanitary sewer system.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for

containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Follow standard hygiene measures when handling chemical

products.

Store in original container. Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Store in accordance with local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	

Safety Data Sheet

Sikaflex®-1A



Revision Date 01/20/2020

Print Date 01/20/2020

xylene	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
Quartz (SiO2)	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0.005 ppm	ACGIH
		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA P0

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.



Revision Date 01/20/2020 Print Date 01/20/2020

Engineering measures : Use of adequate ventilation should be sufficient to control

worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommend-

ed or statutory limits.

Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed

respirator complying with an approved standard if a risk as-

sessment indicates this is necessary.

The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Hand protection : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste Color : various Odor : aromatic

Odor Threshold : No data available

pH : Not applicable

Melting point/range / Freezing :

point

No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper : No data available

Safety Data Sheet

Sikaflex®-1A

Sika®

Revision Date 01/20/2020

Print Date 01/20/2020

flammability limit

Lower explosion limit / Lower :

flammability limit

No data available

Vapor pressure : 0.01 hpa

Relative vapor density : No data available

Density : ca. 1.51 g/cm3 (73 °F / 23 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature

: No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm2/s

Explosive properties : No data available

Oxidizing properties : No data available

Volatile organic compounds

(VOC) content

37 g/l

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac- :

tions

Stable under recommended storage conditions.

Conditions to avoid : No data available Incompatible materials : No data available

Hazardous decomposition : No decomposition if stored and applied as directed.

products

products

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

xylene:

Acute oral toxicity : LD50 Oral (Rat): 3,523 mg/kg

Safety Data Sheet

Sikaflex®-1A



Revision Date 01/20/2020

Acute dermal toxicity : LD50 Dermal (Rabbit): 1,700 mg/kg

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 5,510 mg/kg

Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propy-

lidenetrimethanol:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

4,4'-methylenediphenyl diisocyanate:

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

Test atmosphere: dust/mist Method: Expert judgment

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer by inhalation.

IARC Group 1: Carcinogenic to humans

Quartz (SiO2) 14808-60-7

(Silica dust, crystalline)

Group 2B: Possibly carcinogenic to humans

titanium dioxide 13463-67-7

Group 2B: Possibly carcinogenic to humans

Carbon black 1333-86-4

Group 2B: Possibly carcinogenic to humans

ethylbenzene 100-41-4

OSHA OSHA specifically regulated carcinogen

Quartz (SiO2) 14808-60-7

(crystalline silica)

NTP Known to be human carcinogen

Quartz (SiO2) 14808-60-7



Revision Date 01/20/2020

(Silica, Crystalline (Respirable Size))

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : Carbon black (1333-86-4)

Animal Toxicity:

Rat, oral, duration 2 year

Effect: no tumors

Mouse, oral, duration 2 years

Effect: no tumors

Mouse, dermal, duration 18 months

Effect: no skin tumors

Rat, inhalation, duration 2 years

Target organ: lungs

Effect: inflammation, fibrosis, tumors

Note: Tumors in the rat lung are considered to be related to the "particle overload phenomenon" rather than to a specific chemical effect of carbon black itself in the lung. These effects in rats have been reported in many studies on other poorly soluble inorganic particles and appear to be rat specific. Tumors have not been observed in other species (i.e., mouse and hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions. Mortality studies (human data): A study on carbon black production workers in the UK (Sorahan, 2001) found an increased risk of lung cancer in two of the five plant studied; however, the increase was not related to the dose of carbon black. Thus, the authors did not consider the increased risk in lung cancer to be due to carbon black exposure. A German study of carbon black workers at one plant (Morfeld, 2006; Buechte, 2006) found a similar increase in lung cancer risk but, like the Sorohan, 2001 (UK study) found no association with carbon black exposure. A large US study of 18 plants showed a reduction in lung cancer risk in carbon black production workers (DEII, 2006). Based upon these studies, the February 2006 Working Group at the International Agency for Research on Cancer (IARC) concluded that the human evidence for carcinogenicity was inadequate (IARC, 2010). Since the IARC evaluation of carbon black, Sorahan and Har-



Revision Date 01/20/2020 Print Date 01/20/2020

rington (2007) have re-analyzed the UK study data using an alternative exposure hypothesis and found a positive association with carbon black exposure in two of the five plants. The same exposure hypothesis was applied by Morfeld and McCunney (2009) to the German cohort; in contrast, they found no association between carbon black exposure and lung cancer risk and, thus, no support for the alternative exposure hypothesis used by Sorahan and Harrington. Overall, as a result of these detailed investigations, no causative link between carbon black exposure and cancer risk in humans has been demonstrated.

IARC CANCER CLASSIFICATION: In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly carcinogenic to humans" (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010).

Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause cancer in animals (Group 2B).

ICGIH CANCER CLASSIFICATION: Confirmed Animal Carcinogen with Unknown Relevance to Humans (Category A3 Carcinogen).

ASSESSMENT: Applying the guidelines of self-classification under the Globally Harmonized System of Classification and Labeling of Chemicals, carbon black is not classified as a carcinogen. Lung tumors are induced in rats as a result of repeated exposure to inert, poorly soluble particles like carbon black and other poorly soluble particles. Rats tumors are a result of a secondary non-genotoxic mechanism that has questionable relevance for classification in humans. In support of this opinion, the CLP Guidance for Specific Target Organ Toxicity - Repeated Exposure (STOT-RE), cites lung overload under mechanisms not relevant to humans. Human health studies show that exposure to carbon black does not increase the risk to carcinogenicity.

Titanium dioxide (13463-67-7)

In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes into contact



Revision Date 01/20/2020 Print Date 01/20/2020

with the lung. However, tests with other laboratory animals such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiological studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

Quartz (14808-60-7): This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

ethylbenzene:

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

Do not empty into drains; dispose of this material and its con-

tainer in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.



Revision Date 01/20/2020

Print Date 01/20/2020

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitization

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

xylene 1330-20-7 >= 1 - < 5 %

ethylbenzene 100-41-4 >= 0.1 - < 1 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

xylene 1330-20-7 >= 1 - < 5 %

SECTION 16. OTHER INFORMATION

Full text of other abbreviations



Revision Date 01/20/2020 Print Date 01/20/2020

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA PO : USA, OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-3 : USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-

eral Dusts

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit OSHA P0 / TWA : 8-hour time weighted average OSHA P0 / STEL : Short-term exposure limit

OSHA P0 / C : Ceiling limit

OSHA Z-1 / TWA : 8-hour time weighted average

OSHA Z-1 / C : Ceiling

OSHA Z-3 / TWA : 8-hour time weighted average

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 01/20/2020

000000608991

US / Z8



Revision Date 09/29/2021

Print Date 09/29/2021

SECTION 1. IDENTIFICATION

Product name : Sikaflex®-11 FC

Company name : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: +1-703-527-3887

Recommended use of the chemical and restrictions on

use

For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Carcinogenicity (Inhalation) : Category 1A

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 2

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

H350 May cause cancer by inhalation.

H373 May cause damage to organs through prolonged or re-



Revision Date 09/29/2021 Print Date 09/29/2021

peated exposure if inhaled.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P260 Do not breathe mist or vapors.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

P284 Wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/

attention.

P362 + P364 Take off contaminated clothing and wash it before

reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

Intentional misuse by deliberate concentration and inhalation of vapor may be harmful or fatal.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra- tion (% w/w)
xylene	1330-20-7	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304	>= 1 - < 5



Revision Date 09/29/2021 Print Date 09/29/2021

4,4'-methylenediphenyl diisocyanate	101-68-8	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 0.1 - < 1
ethylbenzene	100-41-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 Asp. Tox. 1; H304 Eye Irrit. 2A; H319	>= 0.1 - < 1
Quartz (SiO2)	14808-60-7	Carc. 1A; H350i STOT RE 1; H372 STOT SE 3; H335	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

Asthmatic appearance

Allergic reactions sensitizing effects

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficul-

ties if inhaled.

May cause cancer by inhalation.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Notes to physician : Treat symptomatically.



Revision Date 09/29/2021 Print Date 09/29/2021

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Further information Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Deny access to unprotected persons.

Environmental precautions Do not flush into surface water or sanitary sewer system.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for

containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage Store in original container.

Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Store in accordance with local regulations.



Revision Date 09/29/2021 Print Date 09/29/2021

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters / Permissible concentration	Basis
xylene	1330-20-7	exposure) TWA	100 ppm	OSHA Z-1
xylerie	1330-20-7		435 mg/m3	
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0.005 ppm	ACGIH
- Cyanate		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA P0
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	OSHA P0
		IWA	435 mg/m3	OSHATO
		STEL	125 ppm	OSHA P0
		J OILL	545 mg/m3	0011/110
		TWA	20 ppm	ACGIH
Quartz (SiO2)	14808-60-7	TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH
		TWA (Respirable dust)	0.05 mg/m3	OSHA Z-1
		TWA (respirable)	10 mg/m3 / %SiO2+2	OSHA Z-3
		TWA (respirable)	250 mppcf / %SiO2+5	OSHA Z-3
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
		TWA (respirable dust fraction)	0.1 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.025 mg/m3	ACGIH



Revision Date 09/29/2021 Print Date 09/29/2021

	TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	ACGIH
--	-------------------------------------	-------------------------	-------

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures : Use of adequate ventilation should be sufficient to control

worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommend-

ed or statutory limits.

Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed

respirator complying with an approved standard if a risk as-

sessment indicates this is necessary.

The filter class for the respirator must be suitable for the max-

imum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-

contained breathing apparatus must be used.

Hand protection : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste

Color : various

Odor : aromatic

Print Date 09/29/2021

Revision Date 09/29/2021

Odor Threshold : No data available

pH : Not applicable

Melting point/range / Freezing :

point

No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : 0.01 hpa

Relative vapor density : No data available

Density : ca. 1.28 g/cm3 (73 °F / 23 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm2/s (104 °F / 40 °C)

Explosive properties : No data available

Oxidizing properties : No data available

Volatile organic compounds

(VOC) content

25 g/l

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.



Revision Date 09/29/2021 Print Date 09/29/2021

Possibility of hazardous reac- :

tions

Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition

products

No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

xylene:

Acute oral toxicity : LD50 Oral (Rat): 3,523 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 1,700 mg/kg

4,4'-methylenediphenyl diisocyanate:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50: 1.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Expert judgment

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 5,510 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Revision Date 09/29/2021 Print Date 09/29/2021

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

May cause cancer by inhalation.

IARC Group 1: Carcinogenic to humans

Quartz (SiO2) 14808-60-7

(Silica dust, crystalline)

Group 2B: Possibly carcinogenic to humans

titanium dioxide 13463-67-7

Group 2B: Possibly carcinogenic to humans

Carbon black 1333-86-4

Group 2B: Possibly carcinogenic to humans

ethylbenzene 100-41-4

OSHA OSHA specifically regulated carcinogen

Quartz (SiO2) 14808-60-7

(crystalline silica)

NTP Known to be human carcinogen

Quartz (SiO2) 14808-60-7

(Silica, Crystalline (Respirable Size))

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : Carbon black (1333-86-4)

Animal Toxicity:

Rat, oral, duration 2 year

Effect: no tumors

Mouse, oral, duration 2 years

Effect: no tumors

Mouse, dermal, duration 18 months

Effect: no skin tumors

Rat, inhalation, duration 2 years

Target organ: lungs

Effect: inflammation, fibrosis, tumors

Note: Tumors in the rat lung are considered to be related to the "particle overload phenomenon" rather than to a specific chemical effect of carbon black itself in the lung. These ef-



Revision Date 09/29/2021 Print Date 09/29/2021

> fects in rats have been reported in many studies on other poorly soluble inorganic particles and appear to be rat specific. Tumors have not been observed in other species (i.e., mouse and hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions. Mortality studies (human data): A study on carbon black production workers in the UK (Sorahan, 2001) found an increased risk of lung cancer in two of the five plant studied; however, the increase was not related to the dose of carbon black. Thus, the authors did not consider the increased risk in lung cancer to be due to carbon black exposure. A German study of carbon black workers at one plant (Morfeld, 2006; Buechte, 2006) found a similar increase in lung cancer risk but, like the Sorohan, 2001 (UK study) found no association with carbon black exposure. A large US study of 18 plants showed a reduction in lung cancer risk in carbon black production workers (DEII, 2006). Based upon these studies, the February 2006 Working Group at the International Agency for Research on Cancer (IARC) concluded that the human evidence for carcinogenicity was inadequate (IARC, 2010). Since the IARC evaluation of carbon black, Sorahan and Harrington (2007) have re-analyzed the UK study data using an alternative exposure hypothesis and found a positive association with carbon black exposure in two of the five plants. The same exposure hypothesis was applied by Morfeld and McCunney (2009) to the German cohort; in contrast, they found no association between carbon black exposure and lung cancer risk and, thus, no support for the alternative exposure hypothesis used by Sorahan and Harrington. Overall, as a result of these detailed investigations, no causa-

tive link between carbon black exposure and cancer risk in humans has been demonstrated.

IARC CANCER CLASSIFICATION: In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly carcinogenic to humans" (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010).

Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause cancer in animals (Group 2B).

ICGIH CANCER CLASSIFICATION: Confirmed Animal Carcinogen with Unknown Relevance to Humans (Category A3 Carcinogen).

ASSESSMENT: Applying the guidelines of self-classification

Sikaflex®-11 FC



Revision Date 09/29/2021 Print Date 09/29/2021

under the Globally Harmonized System of Classification and Labeling of Chemicals, carbon black is not classified as a carcinogen. Lung tumors are induced in rats as a result of repeated exposure to inert, poorly soluble particles like carbon black and other poorly soluble particles. Rats tumors are a result of a secondary non-genotoxic mechanism that has questionable relevance for classification in humans. In support of this opinion, the CLP Guidance for Specific Target Organ Toxicity - Repeated Exposure (STOT-RE), cites lung overload under mechanisms not relevant to humans. Human health studies show that exposure to carbon black does not increase the risk to carcinogenicity.

Titanium dioxide (13463-67-7)

In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes into contact with the lung. However, tests with other laboratory animals such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiological studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

Quartz (14808-60-7): This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

xylene:

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 2.2

mg/l

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l

Exposure time: 56 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia): 1.17 mg/l

Exposure time: 7 d

Sikaflex®-11 FC



Revision Date 09/29/2021

10.011 Date 00/20/202

ethylbenzene:

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

: Do not empty into drains; dispose of this material and its con-

tainer in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

CERCLA Reportable Quantity

Sikaflex®-11 FC



Revision Date 09/29/2021 Print Date 09/29/2021

1330-20-7 100 xylene

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards Respiratory or skin sensitization

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

xylene 1330-20-7 >= 1 - < 5 %

ethylbenzene 100-41-4 >= 0.1 - < 1 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61): xylene 1330-20-7 >= 1 - < 5 %

California Prop. 65

MARNING: This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer, and 1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH USA. ACGIH Threshold Limit Values (TLV)

: USA. OSHA - TABLE Z-1 Limits for Air Contaminants -OSHA P0

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min-OSHA Z-3

eral Dusts

8-hour, time-weighted average ACGIH / TWA Short-term exposure limit ACGIH / STEL 8-hour time weighted average OSHA P0 / TWA OSHA P0 / STEL Short-term exposure limit

OSHA P0 / C : Ceiling limit

: 8-hour time weighted average OSHA Z-1 / TWA

OSHA Z-1 / C Ceiling

OSHA Z-3 / TWA 8-hour time weighted average

Notes to Reader

Safety Data Sheet

Sikaflex®-11 FC



Revision Date 09/29/2021 Print Date 09/29/2021

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 09/29/2021

000000604251 US / Z8



Revision Date 05/07/2020

SECTION 1. IDENTIFICATION

Product name : Sikaflex® Primer-449

Company name : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Flammable liquids : Category 2

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1

Carcinogenicity (Inhalation) : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity

- single exposure

Category 3 (Central nervous system)

Specific target organ toxicity

- repeated exposure (Inhala-

tion)

Category 2

GHS label elements



Revision Date 05/07/2020 Print Date 05/07/2020

Hazard pictograms







Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer if inhaled.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or re-

peated exposure if inhaled.

Precautionary Statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equip-

ment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of

the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention

P362 + P364 Take off contaminated clothing and wash it before



Revision Date 05/07/2020

Print Date 05/07/2020

reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labeling

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

Other hazards

Intentional misuse by deliberate concentration and inhalation of vapor may be harmful or fatal.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra- tion (% w/w)
butanone	78-93-3	Flam. Liq. 2; H225 Eye Irrit. 2A; H319 STOT SE 3; H336	>= 50 - < 70
toluene	108-88-3	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Repr. 2; H361 STOT SE 3; H336 STOT RE 2; H373 Asp. Tox. 1; H304	>= 20 - < 30
Aliphatic polyisocyanate	28182-81-2	Acute Tox. 4; H332 Skin Sens. 1; H317 STOT SE 3; H335	>= 5 - < 10
n-butyl acetate	123-86-4	Flam. Liq. 3; H226 STOT SE 3; H336	>= 1 - < 5
xylene	1330-20-7	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 STOT SE 3; H335 STOT RE 2; H373 Asp. Tox. 1; H304	>= 1 - < 5
ethylbenzene	100-41-4	Flam. Liq. 2; H225 Acute Tox. 4; H332 Carc. 2; H351	>= 0.1 - < 1



Revision Date 05/07/2020 Print Date 05/07/2020

STOT RE 2; H373	
Asp. Tox. 1; H304	
Eye Irrit. 2A; H319	

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in attend-

ance.

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

irritant effects

sensitizing effects Respiratory disorder

Allergic reactions
Excessive lachrymation

Erythema
Dermatitis
Loss of balance

Vertigo

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause drowsiness or dizziness. Suspected of causing cancer if inhaled.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES



Revision Date 05/07/2020 Print Date 05/07/2020

Suitable extinguishing media Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

Water

High volume water jet

Specific hazards during fire

fighting

Do not use a solid water stream as it may scatter and spread

fire.

Further information Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Remove all sources of ignition.

Deny access to unprotected persons.

Beware of vapors accumulating to form explosive concentra-

tions. Vapors can accumulate in low areas.

Environmental precautions Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for

containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Use explosion-proof equipment.

Keep away from heat/ sparks/ open flames/ hot surfaces. No

smoking.

Take precautionary measures against electrostatic discharg-

Advice on safe handling Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Persons with a history of skin sensitization problems or asth-



Revision Date 05/07/2020 Print Date 05/07/2020

ma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Smoking, eating and drinking should be prohibited in the application area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Store in original container.

Store in cool place.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

Materials to avoid : Explosives

Oxidizing agents Poisonous gases Poisonous liquids

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
butanone	78-93-3	TWA	200 ppm	ACGIH
	1000	STEL	300 ppm	ACGIH
		TWA	200 ppm 590 mg/m3	OSHA Z-1
		TWA	200 ppm 590 mg/m3	OSHA P0
		STEL	300 ppm 885 mg/m3	OSHA P0
toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm (10 minutes)	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 mg/m3	OSHA P0
n-butyl acetate	123-86-4	TWA	150 ppm 710 mg/m3	OSHA Z-1
		TWA	150 ppm	OSHA P0



Revision Date 05/07/2020 Print Date 05/07/2020

			710 mg/m3	
		STEL	200 ppm 950 mg/m3	OSHA P0
		TWA	50 ppm	ACGIH
		STEL	150 ppm	ACGIH
xylene	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Engineering measures

Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is nec-

essary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.



Revision Date 05/07/2020 Print Date 05/07/2020

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling

the product.

Remove respiratory and skin/eye protection only after vapors

have been cleared from the area.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : No data available

Odor : aromatic

Odor Threshold : No data available

pH : Not applicable

Melting point/range / Freezing :

Boiling point/boiling range

point

ezing : No data available

Flash point : 72 °F / 22 °C

(Method: closed cup)

No data available

: No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

Evaporation rate

7 %(V)

Lower explosion limit / Lower

flammability limit

1 %(V)

Vapor pressure : 88.9924 hpa

Relative vapor density : No data available

Density : 0.87 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n- : No data available

Print Date 05/07/2020

Revision Date 05/07/2020

octanol/water

Autoignition temperature : 415 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : $> 20.5 \text{ mm2/s} (104 \degree \text{F} / 40 \degree \text{C})$

Explosive properties : No data available

Oxidizing properties : No data available

Volatile organic compounds

(VOC) content

670.7 g/l

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reac- :

tions

Stable under recommended storage conditions. Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : No data available

Hazardous decomposition

products

No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

butanone:

Acute oral toxicity : LD50 Oral (Rat): 3,300 mg/kg

Acute inhalation toxicity : LC50 (Rat): 36 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

Aliphatic polyisocyanate:

Acute oral toxicity : LD50 Oral (Rat): > 2,500 mg/kg



Revision Date 05/07/2020

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l

Test atmosphere: dust/mist Method: Expert judgment

Acute dermal toxicity : LD50 Dermal (Rat): > 2,000 mg/kg

n-butyl acetate:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

xylene:

Acute oral toxicity : LD50 Oral (Rat): 3,523 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 1,700 mg/kg

ethylbenzene:

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 5,510 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer if inhaled.

IARC Group 2B: Possibly carcinogenic to humans

ethylbenzene 100-41-4

OSHA Not applicable

NTP Not applicable



Revision Date 05/07/2020

Print Date 05/07/2020

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

n-butyl acetate:

Toxicity to algae/aquatic

plants

: EC50 (Desmodesmus subspicatus (green algae)): 647.7 mg/l

ethylbenzene:

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological infor-

mation

Do not empty into drains; dispose of this material and its con-

tainer in a safe way.

Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.



Revision Date 05/07/2020

Print Date 05/07/2020

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No. : UN 1993

Proper shipping name : Flammable liquid, n.o.s.

(butanone, Toluene)

Class : 3 Packing group : II

Labels : Flammable Liquids

Packing instruction (cargo : 364

aircraft)

Packing instruction (passen: 353

ger aircraft)

IMDG-Code

UN number : UN 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(butanone, Toluene)

Class : 3
Packing group : II
Labels : 3

EmS Code : F-E, S-E Marine pollutant : no

Domestic regulation

49 CFR

UN/ID/NA number : UN 1993

Proper shipping name : Flammable liquids, n.o.s.

(butanone, Toluene)

Class : 3 Packing group : II

Labels : FLAMMABLE LIQUID

ERG Code : 128 Marine pollutant : no

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.



Revision Date 05/07/2020 Print Date 05/07/2020

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Respiratory or skin sensitization

Carcinogenicity
Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels es-

tablished by SARA Title III, Section 313:

toluene 108-88-3 >= 20 - < 30 %

xylene 1330-20-7 >= 1 - < 5 %

ethylbenzene 100-41-4 >= 0.1 - < 1 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

toluene 108-88-3 >= 20 - < 30 % xylene 1330-20-7 >= 1 - < 5 %

California Prop 65 WARNING: Cancer and Reproductive Harm -

www.P65Warnings.ca.gov

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

OSHA PO : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA Z-2 : USA. Occupational Exposure Limits (OSHA) - Table Z-2

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit OSHA P0 / TWA : 8-hour time weighted average OSHA P0 / STEL : Short-term exposure limit OSHA Z-1 / TWA : 8-hour time weighted average OSHA Z-2 / TWA : 8-hour time weighted average OSHA Z-2 / CEIL : Acceptable ceiling concentration

Safety Data Sheet

Sikaflex® Primer-449



Revision Date 05/07/2020 Print Date 05/07/2020

OSHA Z-2 / Peak : Acceptable maximum peak above the acceptable ceiling con-

centration for an 8-hr shift

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 05/07/2020

000000604366

US / Z8



Revision Date 10/29/2015

1. Identification

Product name : Sikaplan® Adhered Roofing Membrane

Supplier : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Not a hazardous substance or mixture.

GHS Label element

Not a hazardous substance or mixture.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.



Revision Date 10/29/2015

: Take off contaminated clothing and shoes immediately. In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: No known significant effects or hazards.

See Section 11 for more detailed information on health effects

and symptoms.

Protection of first-aiders : No hazards which require special first aid measures.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific hazards during fire

fighting

: none

Specific extinguishing

methods

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for fire-fighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Environmental precautions : Refer to protective measures listed in sections 7 and 8.

: Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

7. Handling and storage

Advice on safe handling : For personal protection see section 8.



Revision Date 10/29/2015

No special handling advice required.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Store in accordance with local regulations.

Materials to avoid : No data available

8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

Engineering measures : Use of adequate ventilation should be sufficient to control

worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any

recommended or statutory limits.

Personal protective equipment

Respiratory protection : Use a properly fitted NIOSH approved air-purifying or air-fed

respirator complying with an approved standard if a risk

assessment indicates this is necessary.

The filter class for the respirator must be suitable for the

maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained

breathing apparatus must be used.

Hand protection

Remarks : Chemical-resistant, impervious gloves complying with an

approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Wash hands before breaks and immediately after handling the

product.

Remove contaminated clothing and protective equipment

before entering eating areas.

Avoid breathing dust.



Revision Date 10/29/2015

9. Physical and chemical properties

Appearance : Flexible vinyl film

Color : various

Odor : none

Odor Threshold : No data available

Flash point : Note: Not applicable

Ignition temperature : No data available

Decomposition temperature : No data available

Lower explosion limit (Vol%) : No data available

Upper explosion limit (Vol%) : No data available

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

Autoignition temperature : No data available

pH : No data available

Melting point/range : 320 °F (160 °C)

Boiling point/boiling range : No data available

Vapor pressure : No data available

Density : 1.28 - 1.32 g/cm3

at 73 °F (23 °C)

Water solubility : Note: insoluble

Partition coefficient: n-

octanol/water

: No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds

(VOC) content

Not applicable



Revision Date 10/29/2015

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Conditions to avoid : No data available

Incompatible materials : No data available

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

11. Toxicological information

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information. **IARC** Not applicable

NTP Not applicable

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.



Revision Date 10/29/2015

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : No SARA Hazards



Revision Date 10/29/2015 Print Date 10/29/2015

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion

Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65 This product does not contain any chemicals known to the State

of California to cause cancer, birth, or any other reproductive

defects.

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT



Revision Date 10/29/2015

Print Date 10/29/2015

BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 10/29/2015

Material number: 191210

SDS Revision Date: 12/19/2014

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity U 148A
Alternate Names U 148A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended useSee Technical Data Sheet.Application MethodSee Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name STABOND CORPORATION

1722 W. 139th Street, GARDENA CA. 90249

Emergency

24 hour Emergency Telephone No. Chemtrec CCN 20994

24 hour emergency phone # 800 424 9300

Customer Service: STABOND CORPORATION 310 380 6168

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Flam. Liq. 2;H225 Highly Flammable liquid and vapor.

Acute Tox. 5;H303 May be harmful if swallowed. (Not adopted by US OSHA)

Acute Tox. 5;H313 May be harmful in contact with skin. (Not adopted by US OSHA)

Eye Irrit. 2;H319 Causes serious eye irritation.

STOT SE 3;H336 May cause drowsiness or dizziness.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H225 Highly flammable liquid and vapor.

H303 May be harmful if swallowed.

H313 May be harmful in contact with skin.

SDS Revision Date: 12/19/2014

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

[Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P235 Keep cool.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+313 If eye irritation persists: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Acetone CAS Number: 0000067-64-1	75 - 100	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	[1][2]
Hexanedioic acid, polymer with 1,4-butanediol, 1,6-hexanediol and 1,1'-methylenebis[4-isocyanatobenzene] CAS Number: 0030662-91-0	10 - 25		[1]
Ethanol, 2-butoxy-, phosphate (3:1) CAS Number: 0000078-51-3	1.0 - 10		[1]

SDS Revision Date: 12/19/2014

- [1] Substance classified with a health or environmental hazard.
- [2] Substance with a workplace exposure limit.
- [3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give

artificial respiration. If unconscious place in the recovery position and obtain immediate

medical attention. Give nothing by mouth.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and

seek medical attention.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a

recognized skin cleanser.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. If

vomiting should occur spontaneously keep victims head below knees to prevent aspiration

into the lungs.

4.2. Most important symptoms and effects, both acute and delayed

Overview

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. Headaches, dizziness, nausea, decreased blood pressure, changes in heart rate and cyanosis may result from over-exposure to vapor or skin exposure. Breathing saturated vapors for a few minutes may be fatal. Saturated vapors can be encountered in confined spaces and/or under conditions of poor ventilation. Prolonged inhalation may be harmful.

EFFECTS OF OVEREXPOSURE - INGESTION: This material may be harmful or fatal if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Overexposure may cause lung damage.

This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

SDS Revision Date: 12/19/2014

Inhalation May cause drowsiness or dizziness.

Eyes Causes serious eye irritation.

Skin May be harmful in contact with skin. (Not adopted by US OSHA)

Ingestion May be harmful if swallowed. (Not adopted by US OSHA)

Chronic effects Moderate CNS depression may be shown by giddiness, headache, dizziness and nausea.

If vomiting occurs, keep head below hips to prevent aspiration of liquid into lungs, which can cause severe lung damage. Aspiration pneumonitis may be evidenced by coughing

and cyanosis.

5. Fire-fighting measures

5.1. Extinguishing media

Dry chemical, Foam, Water fog

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of carbon and nitrogen, low molecular weight hydrocarbons and organic acids.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep cool.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust / fume / gas / mist / vapors / spray.

5.3. Advice for fire-fighters

Volatile solvent constituent can readily form explosive or flammable mixtures in air. Vapors can flow along surfaces to distant ignition sources and flash back.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

ERG Guide No. 127

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapor levels are below the Lower Explosive Limit before re-entering.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Soak up wet material on a non-combustible absorbent and place in a closed metal container.

SDS Revision Date: 12/19/2014

7. Handling and storage

7.1. Precautions for safe handling

Store in cool, well ventilated area away from any ignition sources and strong oxidizing agents. Keep containers tightly closed when not in use. Do not transfer to plastic containers.

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Ground and bond metal containers when dispensing. Not smoking in areas of use or stroage. Use only non-sparking tools near wet adhesive or solvent vapors. Solvent vapor is much heavier than air and can collect in dangerous concentrations in floor drains or low areas.

Incompatible materials: Avoid contact with strong acids and bases. Contact with strong oxidizers may cause fire and explosion.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000067-64-1	000067-64-1 Acetone	OSHA	TWA 1000 ppm (2400 mg/m3)STEL 2400 mg/m3
		ACGIH	TWA: 250 ppm STEL: 500 ppm Skin
		NIOSH	250 ppm (590 mg/m3) TWA
		Supplier	No Established Limit
0000078-51-3	0000078-51-3 Ethanol, 2-butoxy-, phosphate (3:1)	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
	Supplier	No Established Limit	
0030662-91-0	Hexanedioic acid, polymer with 1,4-	OSHA	No Established Limit
	butanediol, 1,6-hexanediol and 1,1'-methylenebis[4-isocyanatobenzene]	ACGIH	No Established Limit
		NIOSH	No Established Limit
			No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000067-64-1	Acetone	OSHA	Select Carcinogen: No

SDS Revision Date: 12/19/2014

		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000078-51-3	Ethanol, 2-butoxy-, phosphate (3:1)	OSHA	Select Carcinogen: No
	NTP	Known: No; Suspected: No	
	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;	
0030662-91-0	= - · · · · · · · · · · · · · · · · ·	OSHA	Select Carcinogen: No
1,1'-methylenebis[4-	NTP	Known: No; Suspected: No	
	IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;	

8.2. Exposure controls

Respiratory Atmospheric levels should be maintained below the exposure guideline. Use an approved,

full-face, supplied air respirator or a NIOSH approved positive pressure, self-contained

breathing apparatus if these levels are exceeded.

Eyes Safety glasses or chemical goggles should be worn.

Skin Overalls which cover the body, arms and legs should be worn. Skin should not be exposed.

All parts of the body should be washed after contact. Use neoprene, vinyl or natural rubber

gloves.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the

use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits

suitable respiratory protection must be worn.

Other Work Practices Eye wash fountain or bottles. Solvent insoluble barrier hand cream. Use good personal

hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly

remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance Medium viscosity, clear syrup

Odor Acetone

Odor threshold Not Measured

PH Not Measured

Melting point / freezing point Not Measured

Initial boiling point and boiling range 133 F
Flash Point -4 F

Evaporation rate (Ether = 1) SLOWER THAN ETHER

Flammability (solid, gas) Not Applicable

Upper/lower flammability or explosive limits Lower Explosive Limit: 2.2%

Upper Explosive Limit: 13.0%

Vapor pressure (Pa) Not Measured

Vapor Density HEAVIER THAN AIR

SDS Revision Date: 12/19/2014

Specific Gravity 0.85 (H2O=1)

Solubility in Water Nil

Partition coefficient n-octanol/water (Log Kow)

Auto-ignition temperature

Decomposition temperature

Viscosity (cSt)

Not Measured

Not Measured

Not Measured

VOC COATING V.O.C.: 5 g/l, MATERIAL V.O.C.: 1 g/l

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid contact with open flame, sparks or hot surfaces.

10.5. Incompatible materials

Avoid contact with strong acids and bases. Contact with strong oxidizers may cause fire and explosion.

10.6. Hazardous decomposition products

Oxides of carbon and nitrogen, low molecular weight hydrocarbons and organic acids.

11. Toxicological information

Acute toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Acetone - (67-64-1)	2,000.00, Rat - Category: 4	2,000.00, Rabbit - Category: 4	76.00, Rat - Category: NA	No data available	No data available

SDS Revision Date: 12/19/2014

Hexanedioic acid, polymer with 1,4-butanediol, 1,6-hexanediol and 1,1'-methylenebis[4-isocyanatobenzene] - (30662-91-0)	No data	No data	No data	No data	No data
	available	available	available	available	available
Ethanol, 2-butoxy-, phosphate (3:1) - (78-51-3)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	5	May be harmful if swallowed. (Not adopted by US OSHA)
Acute toxicity (dermal)	5	May be harmful in contact with skin. (Not adopted by US OSHA)
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation		Not Applicable
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure	3	May cause drowsiness or dizziness.
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable

12. Ecological information

12.1. Toxicity

Toxic to aquatic life

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Acetone - (67-64-1)	100.00, Pimephales promelas	10.00, Daphnia magna	20.565 (72 hr), Ulva pertusa
Hexanedioic acid, polymer with 1,4-butanediol, 1,6-hexanediol and 1,1'-methylenebis[4-isocyanatobenzene] - (30662-91-0)	Not Available	Not Available	Not Available
Ethanol, 2-butoxy-, phosphate (3:1) - (78-51-3)	Not Available	Not Available	Not Available

SDS Revision Date: 12/19/2014

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

DOT (Domestic Surface Transportation)

14.1. UN number UN1133

14.2. UN proper UN1133, Adhesives, containing a

shipping name flammable liquid, 3, II 14.3. Transport **DOT Hazard Class: 3**

hazard class(es) **DOT Label:** 3

14.4. Packing group ||

14.5. Environmental hazards

IMDG Marine Pollutant: No

14.6. Special precautions for user

No further information

IMO / IMDG (Ocean Transportation)

Adhesives, containing a

flammable liquid

UN1133

Ш

Sub Class: Not Applicable

Adhesives, containing a flammable liquid

Air Class: 3

ICAO/IATA

UN1133

Ш

SDS Revision Date: 12/19/2014

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected

regulations are represented.

Toxic Substance
Control Act (TSCA)

All components of this material are either listed or exempt from listing on the TSCA

Control Act (TSCA) Inventory.

WHMIS Classification B2 D2B

US EPA Tier II Hazards

Sudden Release of Pressure: No

Reactive: No

Fire: Yes

Immediate (Acute): Yes Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (lbs):

Acetone (5,000.00)

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

Benzene

Proposition 65 - Developmental Toxins (>0.0%):

Benzene

Toluene

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

Benzene

N.J. RTK Substances (>1%):

Acetone

Penn RTK Substances (>1%):

Acetone

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

Safety Data Sheet U 148A

SDS Revision Date: 12/19/2014

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

ALL INFORMATION IS BASED UPON DATA FROM MFG'S AND/OR TECHNICAL SOURCE, & IS BELIEVED TO BE ACCURATE. CONDITIONS OF USE ARE BEYOND OUR CONTROL & THEREFORE USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN CONDITIONS TO DETERMINE SUITABILITY FOR THEIR PURPOSE, & THEY ASSUME ALL RISKS OF USE, HANDLING, & DISPOSAL, OR FROM USE OF INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH OTHER MATERIAL OR IN ANY OTHER PROCESS.

End of Document



Revision Date 02/05/2016

1. Identification

Product name : Surface Conditioner WB

Supplier : Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071

USA

www.sikausa.com

Telephone : (201) 933-8800

Telefax : (201) 804-1076

E-mail address : ehs@sika-corp.com

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

Recommended use of the chemical and restrictions on

use

For further information, refer to product data sheet.

2. Hazards identification

GHS Classification

Flammable liquids, Category 2 H225: Highly flammable liquid and vapor. Eye irritation, Category 2A H319: Causes serious eye irritation.

GHS Label element

Hazard pictograms :





Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation.

Precautionary Statements : **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

Response:



Revision Date 02/05/2016

Print Date 02/05/2016

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Warning : Reports have associated repeated and prolonged exposure to

some of the chemicals in this product with permanent brain,liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors

may be harmful or fatal.

See Section 11 for more detailed information on health effects and symptoms.

There are no hazards not otherwise classified that have been identified during the classification process.

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
acetone	67-64-1	>= 10 - < 20 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.



Revision Date 02/05/2016

Fillit Date 02/05/201

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not induce vomiting without medical advice.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and

delayed

: irritant effects

Excessive lachrymation

See Section 11 for more detailed information on health effects

and symptoms.

Causes serious eye irritation.

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: Water

Specific extinguishing

methods

: Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Use personal protective equipment.
 Remove all sources of ignition.
 Deny access to unprotected persons.

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions : Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth,



Revision Date 02/05/2016

Print Date 02/05/2016

vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. Handling and storage

Advice on safe handling : Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapors).

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Store in original container.

Store in cool place.

Keep in a well-ventilated place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

Materials to avoid : No data available

8. Exposure controls/personal protection

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
acetone	67-64-1	ACGIH	TWA	500 ppm
		ACGIH	STEL	750 ppm
		OSHA Z-1	TWA	1,000 ppm 2,400 mg/m3
		OSHA P0	TWA	750 ppm 1,800 mg/m3
		OSHA P0	STEL	1,000 ppm 2,400 mg/m3



Revision Date 02/05/2016

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Basis

ACGIH. Threshold Limit Values (TLV)

OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust

concentrations below any lower explosive limits.

Personal protective equipment

Respiratory protection

: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained

breathing apparatus must be used.

Hand protection

Remarks

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Wash hands before breaks and immediately after handling the

product.

Remove respiratory and skin/eye protection only after vapors

have been cleared from the area.

Remove contaminated clothing and protective equipment

before entering eating areas.

Print Date 02/05/2016

Revision Date 02/05/2016

9. Physical and chemical properties

Appearance : liquid
Color : blue

Odor : solvent

Odor Threshold : No data available

Flash point : 1 °F (-17 °C)

Ignition temperature : No data available

Decomposition temperature : No data available

Lower explosion limit (Vol%) : 2.5 %(V)

Upper explosion limit (Vol%) : 13 %(V)

Flammability (solid, gas) : No data available

Oxidizing properties : No data available

pH : 4-6

Melting point/range /

Freezing point

No data available

Boiling point/boiling range : 133 °F (56 °C)

Vapor pressure : 1.747 mmHg (2.3298 hpa)

Density : 0.9728 g/cm3

Water solubility : Note: dispersible

Partition coefficient: n-

octanol/water

No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : Note: No data available

Relative vapor density : No data available

Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds

(VOC) content

: 0 g/l with exemption; 194.1 g/l without Acetone exemption.

* The U.S. EPA, SCAQMD and others consider the solvent in Surface Conditioner WP as "exempt", and therefore the product's VOC content can be considered "0 g/l" and used in all jurisdictions operating under

these guidelines.

10. Stability and reactivity



Revision Date 02/05/2016

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : No data available

11. Toxicological information

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC Not applicable

NTP Not applicable

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Aspiration toxicity

Not classified based on available information.

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

Avoid dispersal of spilled material and runoff and contact

with soil, waterways, drains and sewers.



Revision Date 02/05/2016

Component:

acetone 67-64-1 <u>Toxicity to fish:</u>

LC50

Species: Fish
Dose: > 5,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50

Species: Daphnia Dose: 12.700 mg/l Exposure time: 48 h

Toxicity to algae:

ErC50

Species: Pseudokirchneriella subcapitata (green algae)

Dose: > 530 mg/l Exposure time: 96 h

13. Disposal considerations

Disposal methods

Waste from residues : Disposal of this product, solutions and any by-products should

at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

UN number 1090 Description of the goods Acetone

Class 3
Packing group II
Labels 3
Emergency Response 127

Guidebook Number

IATA

UN number 1090
Description of the goods Acetone

Class 3
Packing group II
Labels 3
Packing instruction (cargo 364

aircraft)

Packing instruction 353



Revision Date 02/05/2016

(passenger aircraft)

Packing instruction Y341

(passenger aircraft)

IMDG

UN number 1090

Description of the goods ACETONE

 Class
 3

 Packing group
 II

 Labels
 3

 EmS Number 1
 F-E

 EmS Number 2
 S-D

Marine pollutant no

DOT: For Limited Quantity exceptions reference 49 CFR 173.150 (b)

IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act



Revision Date 02/05/2016

Print Date 02/05/2016

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. Other information

HMIS Classification



Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

Revision Date 02/05/2016

Material number: 513481

Safety Data Sheet

Surface Conditioner WB



Revision Date 02/05/2016