

**1. Identification**

| | | |
|---|---|--|
| Product name | : | Sikadur®-31 SBA Normal Set (40°-60°F) Part A |
| 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 use | : | For further information, refer to the product technical data sheet. |

2. Hazards identification**GHS Classification**

| | |
|------------------------------------|--|
| 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. |
| Germ cell mutagenicity, Category 2 | H341: Suspected of causing genetic defects. |
| Carcinogenicity, Category 1A | H350: May cause cancer. |
| Reproductive toxicity, Category 2 | H361: Suspected of damaging fertility or the unborn child. |

GHS Label element

| | | |
|--------------------------|---|---|
| Hazard pictograms | : | |
| Signal Word | : | Danger |
| Hazard Statements | : | H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. |
| Precautionary Statements | : | Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. |



P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 P264 Wash skin thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear eye protection/ face protection.
 P280 Wear protective gloves.
 P281 Use personal protective equipment as required.

Response:

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

Storage:

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.

3. Composition/information on ingredients

Hazardous ingredients

| Chemical Name | CAS-No. | Concentration (%) |
|--|------------|-------------------|
| bisphenol-A-(epichlorhydrin) epoxy resin | 25068-38-6 | >= 25 - < 50 % |
| Quartz (SiO ₂) | 14808-60-7 | >= 10 - < 20 % |
| 2,3-epoxypropyl o-tolyl ether | 2210-79-9 | >= 2 - < 5 % |
| Phenol, 4-nonyl, branched | 84852-15-3 | >= 1 - < 2 % |
| titanium dioxide | 13463-67-7 | >= 0 - < 1 % |
| Quartz (SiO ₂) <5µm | 14808-60-7 | >= 0 - < 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. Do not give milk or alcoholic beverages. Obtain medical attention. Never give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | : | irritant effects sensitizing effects carcinogenic effects Allergic reactions Excessive lachrymation Erythema Dermatitis 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 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. Deny access to unprotected persons. |
| 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.

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.
Follow standard hygiene measures when handling chemical products.

Conditions for safe storage : Prevent unauthorized access.
Store in original container.
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.
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 |
|----------------------------|------------|----------|-------|--|
| Limestone | 1317-65-3 | OSHA Z-1 | TWA | 15 mg/m3 total dust |
| | | OSHA Z-1 | TWA | 5 mg/m3 respirable fraction |
| | | OSHA P0 | TWA | 15 mg/m3 Total |
| | | OSHA P0 | TWA | 5 mg/m3 Respirable fraction |
| Quartz (SiO ₂) | 14808-60-7 | ACGIH | TWA | 0.025 mg/m3 Respirable fraction |
| | | OSHA Z-3 | TWA | 30 mg/m3 / %SiO ₂ +2 total dust |

Sikadur®-31 SBA Normal Set (40°-60°F) Part A



Revision Date 08/18/2014

Print Date 08/18/2014

| | | | | |
|--------------------|------------|----------|-----|--------------------------------------|
| | | OSHA Z-3 | TWA | 10 mg/m3 / %SiO2+2 respirable |
| | | OSHA Z-3 | TWA | 250 mppcf / %SiO2+5 respirable |
| | | OSHA P0 | TWA | 0.1 mg/m3 Respirable fraction |
| polyvinyl chloride | 9002-86-2 | ACGIH | TWA | 1 mg/m3 Respirable fraction |
| titanium dioxide | 13463-67-7 | ACGIH | TWA | 10 mg/m3 |
| | | OSHA P0 | TWA | 10 mg/m3 Total |
| | | OSHA Z-1 | TWA | 15 mg/m3 total dust |
| Quartz (SiO2) <5µm | 14808-60-7 | ACGIH | TWA | 0.025 mg/m3 Respirable fraction |
| | | OSHA Z-3 | TWA | 30 mg/m3 / %SiO2+2 total dust |
| | | OSHA Z-3 | TWA | 10 mg/m3 / %SiO2+2 respirable |
| | | OSHA Z-3 | TWA | 250 mppcf / %SiO2+5 respirable |
| | | OSHA P0 | TWA | 0.1 mg/m3 Respirable fraction |



*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 : 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 | : viscous liquid |
| Color | : white |
| Odor | : aromatic |
| Odor Threshold | : no data available |
| Flash point | : > 212 °F (> 100 °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 | : no data available |
| Melting point/range / Freezing point | : no data available |
| Boiling point/boiling range | : no data available |
| Vapor pressure | : no data available |
| Density | : 1.42 g/cm ³ 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 mm ² /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 | : 2.9 g/l A+B 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

Product

| | |
|---------------------------|---------------------|
| Acute oral toxicity | : no data available |
| Acute inhalation toxicity | : no data available |
| Acute dermal toxicity | : no data available |

Ingredients:

bisphenol-A-(epichlorhydrin) epoxy resin :

| | |
|-----------------------|--------------------------------------|
| Acute oral toxicity | : LD50 Oral rat: > 5,000 mg/kg |
| Acute dermal toxicity | : LD50 Dermal rabbit: > 20,000 mg/kg |

Phenol, 4-nonyl, branched :

| | |
|-----------------------|-----------------------------------|
| Acute dermal toxicity | : LD50 Dermal rabbit: 3,160 mg/kg |
|-----------------------|-----------------------------------|

Skin corrosion/irritation

Product

Causes skin irritation.

Serious eye damage/eye irritation

Product

Causes serious eye irritation.

Respiratory or skin sensitization

Product

May cause an allergic skin reaction.

Germ cell mutagenicity

Product

| | |
|--------------|---|
| Mutagenicity | : Suspected of causing genetic defects. |
|--------------|---|



Carcinogenicity

Product

Carcinogenicity : May cause cancer.

IARC

Group 1: Carcinogenic to humans
 Quartz (SiO₂) 14808-60-7
 Quartz (SiO₂) <5µm 14808-60-7
 Group 2B: Possibly carcinogenic to humans
 titanium dioxide 13463-67-7

NTP

Known to be human carcinogen
 Quartz (SiO₂) 14808-60-7
 Quartz (SiO₂) <5µm 14808-60-7

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: no data available

STOT-repeated exposure

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

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.
 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 May be harmful to the environment if released in large



quantities.
Water polluting material.

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 regulated

IATA

| | |
|--|--|
| UN number | 3082 |
| Description of the goods | Environmentally hazardous substance, liquid, n.o.s. (bisphenol-A-(epichlorhydrin) epoxy resin) |
| Class | 9 |
| Packing group | III |
| Labels | 9 |
| Packing instruction (cargo aircraft) | 964 |
| Packing instruction (passenger aircraft) | 964 |
| Packing instruction (passenger aircraft) | Y964 |

IMDG

| | |
|--------------------------|--|
| UN number | 3082 |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol-A-(epichlorhydrin) epoxy resin) |
| Class | 9 |
| Packing group | III |
| Labels | 9 |
| EmS Number 1 | F-A |
| EmS Number 2 | S-F |
| Marine pollutant | yes |

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 : 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 : 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 WARNING! This product contains a chemical known in the State of California to cause cancer.

16. Other information

Sikadur®-31 SBA Normal Set (40°-60°F) Part A



Revision Date 08/18/2014

Print Date 08/18/2014

HMIS Classification

| | | |
|----------------------------|---|---|
| Health | * | 3 |
| Flammability | | 1 |
| Physical Hazard | | 0 |
| Personal Protection | x | |

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 08/18/2014

Material number: 188212