1. Identification

Product name : Sikadur® 31 Hi-Mod Gel Part B

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.
Serious eye damage , Category 1 H318: Causes serious eye damage.
Skin sensitization , Category 1 H317: May cause an allergic skin reaction.
Carcinogenicity , Category 1A H350: May cause cancer.

GHS Label element

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H350 May cause cancer.

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 must 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.
P310 Immediately call a POISON CENTER or doctor/physician.
P333 + P313 If skin irritation or rash occurs: 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.

**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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2)</td>
<td>14808-60-7</td>
<td>&gt;= 50 - &lt;= 100 %</td>
</tr>
<tr>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td>&gt;= 2 - &lt; 5 %</td>
</tr>
<tr>
<td>3,6-diazaoctanethylenediamin</td>
<td>112-24-3</td>
<td>&gt;= 2 - &lt; 5 %</td>
</tr>
<tr>
<td>2,4,6-tris(dimethylaminomethyl)phenol</td>
<td>90-72-2</td>
<td>&gt;= 2 - &lt; 5 %</td>
</tr>
<tr>
<td>m-phenylenebis(methylamine)</td>
<td>1477-55-0</td>
<td>&gt;= 1 - &lt; 2 %</td>
</tr>
<tr>
<td>Quartz (SiO2) &lt;5µm</td>
<td>14808-60-7</td>
<td>0 - &lt; 1 %</td>
</tr>
<tr>
<td>Naphthalene, pure</td>
<td>91-20-3</td>
<td>0 - &lt; 1 %</td>
</tr>
</tbody>
</table>

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: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing.

If swallowed: Clean mouth with water and drink afterwards plenty of water. Induce vomiting immediately and call a physician. Do NOT induce vomiting. 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 sensitizing effects carcinogenic effects

Allergic reactions Excessive lachrymation 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 damage. May cause cancer.

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.
- Observe label precautions.
- Store in accordance with local regulations.

**Materials to avoid:**
- No data available

8. Exposure controls/personal protection

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Basis **</th>
<th>Value</th>
<th>Exposure limit(s)* / Form of exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2)</td>
<td>14808-60-7</td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.025 mg/m³ Respirable fraction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-3</td>
<td>TWA</td>
<td>30 mg/m³ / %SiO2 + 2 total dust</td>
</tr>
</tbody>
</table>

**Note:**
- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA Z-3: Occupational Safety and Health Administration
- TWA: Time-Weighted Average
| Substance                        | OSHA Z-3       | OSHA P0     | ACGIH       | |----------|----------|----------|----------|----------|
|                                 | TWA          | TWA        | TWA       | TWA       |                      |
| 10 mg/m3 / %SiO2+2 respirable   |              |            |           |           | 250 mppcf / %SiO2+5 respirable |
| OSHA P0                         | TWA          | 0.1 mg/m3  |           |           | Respirable fraction  |
| OSHA P0                         | TWA          | 0.1 mg/m3  | respirable dust fraction |           | 0.025 mg/m3 respirable fraction |
| ACGIH                           | TWA          | 0.025 mg/m3|           |           | Respirable fraction  |
| OSHA P0                         | TWA          | 0.025 mg/m3|           |           | Respirable fraction  |
| m-phenylenebis(methylamine)     | ACGIH C      | 0.1 mg/m3  |           |           | 0.1 mg/m3            |
| Quartz (SiO2) <5µm              | ACGIH TWA    | 0.025 mg/m3| TWA       |           | Respirable fraction  |
| 1477-55-0                       |              |            |           |           | 30 mg/m3 / %SiO2+2 total dust |
| 14808-60-7                      | OSHA Z-3 TWA | 10 mg/m3   |           |           | 250 mppcf / %SiO2+5 respirable |
| OSHA Z-3                        | TWA          |            |           |           | 10 mg/m3 / %SiO2+2 respirable |
| ACGIH                           | TWA          |            |           |           | 0.025 mg/m3 respirable fraction |
| OSHA P0                         | TWA          |            |           |           | 0.025 mg/m3 respirable fraction |
| OSHA P0                         | TWA          | 0.1 mg/m3  | respirable dust fraction |           | 0.025 mg/m3 respirable fraction |
| ACGIH                           | TWA          | 0.025 mg/m3|           |           | Respirable fraction  |
Safety Data Sheet

Sikadur® 31 Hi-Mod Gel Part B

Revision Date 03/12/2015
Print Date 03/19/2015

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>Source</th>
<th>Limit Type</th>
<th>Limit Value</th>
<th>Exposure Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthalene, pure</td>
<td>91-20-3</td>
<td>ACGIH TWA</td>
<td></td>
<td>10 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-1 TWA</td>
<td></td>
<td>10 ppm</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA P0 TWA</td>
<td></td>
<td>10 ppm</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA P0 STEL</td>
<td></td>
<td>15 ppm</td>
<td>75 mg/m³</td>
</tr>
</tbody>
</table>

*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 Contaminant (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 : paste
Color : black
Odor : amine-like
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 : 2.1 g/cm³
Water solubility : Note: slightly soluble
Partition coefficient: n-octanol/water : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : > 20.5 mm²/s
Relative vapor density : No data available
Evaporation rate : No data available

Burning rate : No data available

Volatile organic compounds (VOC) content : 4 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
Not classified based on available information.

**Ingredients:**

**Benzy alcohol:**
Acute oral toxicity : LD50 Oral (Rat): 1,620 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 4.178 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

**3,6-diazaoctanethylenediamin:**
Acute oral toxicity : LD50 Oral (Rat): 1,716 mg/kg
Acute dermal toxicity : LD50 Dermal (Rabbit): 1,465 mg/kg

**m-phenylenebis(methylamine):**
Acute oral toxicity : LD50 Oral (Rat): 930 mg/kg
Acute inhalation toxicity : LC50 (Rat): 1.34 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): > 3,100 mg/kg

**Skin corrosion/irritation**
Causes skin irritation.

**Product:**
Result: Skin irritation
Serious eye damage/eye irritation
Causes serious eye damage.

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
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

NTP
Naphthalene, pure 91-20-3
Known to be human carcinogen

Quartz (SiO2) 14808-60-7
Quartz (SiO2) <5µm 14808-60-7
Reasonably anticipated to be a human carcinogen

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.
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.

Component:

<table>
<thead>
<tr>
<th>3,6-diazaoctanethylenediamin</th>
<th>112-24-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to fish:</td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td></td>
</tr>
<tr>
<td>Species: Pimephales promelas (fathead minnow)</td>
<td></td>
</tr>
<tr>
<td>Dose:  &gt; 100 mg/l</td>
<td></td>
</tr>
</tbody>
</table>
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 : Acute Health Hazard
                      Chronic 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. The following
           components are subject to reporting levels established by SARA Title
           III, Section 313:
                       Naphthalene, pure  91-20-3  0.53 %

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 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

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.
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Revision Date 03/12/2015

Material number: 459285