SECTION 1. IDENTIFICATION

Product name : Sikadur® Blade Repair Hardener-30 Part B

Company name : Sika Corporation

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Lyndhurst, NJ 07071
USA
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Telephone : (201) 933-8800

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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)

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Skin sensitization : Category 1

Reproductive toxicity : Category 2

GHS label elements

Hazard pictograms : [Image]

Signal Word : Danger

Hazard Statements : H302 + H312 Harmful if swallowed or in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
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 mist or vapors.
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/ protective clothing/ eye protection/ face protection.

**Response:**
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
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**
None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixtures**

**Components**
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 attendance.

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. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

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. 
Do not induce vomiting without medical advice. 
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:
Health injuries may be delayed. 
corrosive effects 
sensitizing effects 
Gastrointestinal discomfort 
Allergic reactions 
Dermatitis 
Skin disorders 
Harmful if swallowed or in contact with skin. 
May cause an allergic skin reaction. 
Causes serious eye damage. 
Suspected of damaging fertility or the unborn child. 
Causes severe burns.

Notes to physician:
Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Use extinguishing measures that are appropriate to local circumstances 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, 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.
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 application 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.
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
Dangerous when wet
Flammable solids
Organic peroxides
Poisonous liquids
Spontaneously Combustible Substances

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>m-phenylenebis(methylamine)</td>
<td>1477-55-0</td>
<td>C</td>
<td>0.018 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>0.1 mg/m3</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

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 pro-
cess 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: 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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**: liquid

**Color**: transparent, light yellow

**Odor**: amine-like

**Odor Threshold**: No data available

**pH**: ca. 11.3 (68 °F / 20 °C)

**Melting point/range / Freezing point**: No data available

**Boiling point/boiling range**: No data available

**Flash point**: > 214 °F / > 101 °C (Method: closed cup)
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 : 0.02 hpa

Relative vapor density : No data available

Density : ca. 1.0 g/cm³ (68 °F / 20 °C)

Solubility(ies)
  Water solubility : partly soluble
  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 : ca. 40 mPa.s (77 °F / 25 °C)
  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 : 1.6 g/l
  Sikadur Blade Repair Resin Part A + Part 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 reactions : 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.
SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Harmful if swallowed or in contact with skin.

Components:

3,6,9,12-tetra-azatetradecamethylene diamine:
Acute oral toxicity : LD50 Oral (Rat): 1,600 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
  Assessment: Corrosive to the respiratory tract.
Acute dermal toxicity : LD50 Dermal (Rat): > 3,100 mg/kg

Isophoronediamine:
Acute oral toxicity : LD50 Oral (Rat): 1,030 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 10 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist
Acute dermal toxicity : LD50 (Rabbit): > 2,000 - 5,000 mg/kg

1,3-Cyclohexanedimethanamine:
Acute oral toxicity : LD50 Oral (Rat): 780 mg/kg
Acute dermal toxicity : LD50 Dermal (Rat): 1,700 mg/kg

Phenol, styrenated:
Acute oral toxicity : LD50 Oral (Rat): 2,500 mg/kg
Acute dermal toxicity : LD50 Dermal (Rat): > 5,000 mg/kg

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:
Acute oral toxicity : LD50 Oral (Rat): 910 mg/kg

Salicylic acid, o-hydroxybenzoic acid:
Acute oral toxicity : LD50 Oral (Rat): 891 mg/kg
Acute dermal toxicity : LD50 Dermal (Rat): > 2,000 mg/kg
Skin corrosion/irritation
Causes severe burns.

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
Not classified based on available information.
IARC Not applicable
OSHA Not applicable
NTP Not applicable

Reproductive toxicity
Suspected of damaging fertility or the unborn child.

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.

Aspiration toxicity
Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:
m-phenylenebis(methylamine):
Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 10 - 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
Exposure time: 48 h

Isophoronediamine:
Toxicity to algae/aquatic : ErC50 (Desmodesmus subspicatus (green algae)): > 10 - 100
plants  mg/l

NOEC (Desmodesmus subspicatus (green algae)): 1.5 mg/l

2,2,4(or 2,4,4)-trimethylhexane-1,6-diamine:
Toxicity to algae/aquatic plants  :  EC50 (Scenedesmus capricornutum (fresh water algae)): 29.5 mg/l
Toxicity to fish (Chronic toxicity)  :  LC50 (Leuciscus idus (Golden orfe)): 174 mg/l
Exposure time: 48 h

Persistence and degradability
No data available

Bioaccumulative potential
No data available

Mobility in soil
No data available

Other adverse effects
Product:
Additional ecological 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.

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 handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations
IATA-DGR
UN/ID No.  :  UN 2735
Proper shipping name  :  Polyamines, liquid, corrosive, n.o.s.
(3,6,9,12-tetra-azatetradecamethylenediamine)

Class: 8
Packing group: III
Labels: Corrosive
Packing instruction (cargo aircraft): 856
Packing instruction (passenger aircraft): 852

**IMDG-Code**
UN number: UN 2735
Proper shipping name: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (3,6,9,12-tetra-azatetradecamethylenediamine)

Class: 8
Packing group: III
Labels: 8
EmS Code: F-A, S-B
Marine pollutant: yes

**Domestic regulation**

**49 CFR**
UN/ID/NA number: UN 2735
Proper shipping name: Polyamines, liquid, corrosive, n.o.s. (3,6,9,12-tetra-azatetradecamethylenediamine)

Class: 8
Packing group: III
Labels: CORROSIVE
ERG Code: 153
Marine pollutant: no

DOT: For Limited Quantity exceptions reference 49 CFR 173.154 (b)
IMDG: For Excepted Quantity special provisions reference IMDG Code Chapter 3.5.

**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.

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### 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**
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)
Respiratory or skin sensitization
Reproductive toxicity
Skin corrosion or irritation
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)
OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
ACGIH / C : Ceiling limit
OSHA P0 / C : Ceiling limit

Notes to Reader
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