1. Identification

Product name : Sikalastic®-641 Thixo

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

Serious eye damage , Category 1 : H318: Causes serious eye damage.
Respiratory sensitization , Category 1 : H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization , Category 1 : H317: May cause an allergic skin reaction.
Carcinogenicity , Category 2 : H351: Suspected of causing cancer.
Reproductive toxicity , Category 2 : H361: Suspected of damaging fertility or the unborn child.

GHS Label element

Hazard pictograms :

Signal Word : Danger

Hazard Statements :

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351 Suspected of causing 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.  
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.  
P285 In case of inadequate ventilation wear respiratory protection.  

Response:  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position 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.  
P310 Immediately 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.  

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.  

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>titanium dioxide</td>
<td>13463-67-7</td>
<td>&gt;= 5 - &lt; 10 %</td>
</tr>
<tr>
<td>Propylene carbonate</td>
<td>108-32-7</td>
<td>&gt;= 5 - &lt; 10 %</td>
</tr>
<tr>
<td>Hardener MTJ (Polyoxypropylenetri(morpholinoalimine))</td>
<td>1379822-00-0</td>
<td>&gt;= 5 - &lt; 10 %</td>
</tr>
<tr>
<td>Hardener Ml (Isophoronedi(morpholinoalimine))</td>
<td>1217271-02-7</td>
<td>&gt;= 2 - &lt; 5 %</td>
</tr>
<tr>
<td>Isophorondisocyanate homopolymer</td>
<td>53880-05-0</td>
<td>&gt;= 2 - &lt; 5 %</td>
</tr>
<tr>
<td>tris(methylphenyl) phosphate</td>
<td>1330-78-5</td>
<td>&gt;= 0 - &lt; 1 %</td>
</tr>
<tr>
<td>3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate</td>
<td>4098-71-9</td>
<td>&gt;= 0 - &lt; 1 %</td>
</tr>
<tr>
<td>bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate</td>
<td>41556-26-7</td>
<td>&gt;= 0 - &lt; 1 %</td>
</tr>
<tr>
<td>1-ethylpyrrolidin-2-one</td>
<td>2687-91-4</td>
<td>&gt;= 0 - &lt; 1 %</td>
</tr>
</tbody>
</table>
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: sensitizing effects

Asthmatic appearance
Allergic reactions
Excessive lachrymation
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: Avoid formation of aerosol. 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: 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

Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.

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>
</table>
| Aluminium hydroxide   | 21645-51-2 | ACGIH    | TWA   | 1 mg/m³  
Respirable fraction    |
### 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

*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

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>CAS Number</th>
<th>ACGIH</th>
<th>TWA</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>OSHA P0</td>
<td>TWA</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>15 mg/m³ Total</td>
</tr>
<tr>
<td>Barium Sulfate</td>
<td>7727-43-7</td>
<td>OSHA P0</td>
<td>TWA</td>
<td>10 mg/m³ Total</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA P0</td>
<td>TWA</td>
<td>5 mg/m³ Respirable fraction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>15 mg/m³ Total</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>5 mg/m³ Respirable fraction</td>
</tr>
<tr>
<td>Triphenyl Phosphate</td>
<td>115-86-6</td>
<td>OSHA P0</td>
<td>TWA</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>3 mg/m³</td>
</tr>
<tr>
<td>Solvent Naphtha (petroleum), light arom.</td>
<td>64742-95-6</td>
<td>OSHA P0</td>
<td>TWA</td>
<td>500 ppm 2,000 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA P1</td>
<td>TWA</td>
<td>200 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA P2</td>
<td>TWA</td>
<td>1,600 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-3</td>
<td>TWA</td>
<td>400 ppm 1,600 mg/m³</td>
</tr>
</tbody>
</table>
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 : liquid
Color : gray
Odor : mild
Odor Threshold : no data available
Flash point : 302 °F (150 °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
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:

Hardener MI (Isophoronedi(morpholinoaldimine)):
Acute oral toxicity: LD50 Oral rat: > 2,001 mg/kg

Isophorondiisocyanate homopolymer:
Acute oral toxicity: LD50 Oral rat: > 5,000 mg/kg

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:
Acute oral toxicity: LD50 Oral rat: 4,814 mg/kg

Acute inhalation toxicity: LC50 rat: 0.031 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity: LD50 Dermal rat: > 7,000 mg/kg

1-ethylpyrrolidin-2-one:
Acute oral toxicity: LD50 Oral rat: > 3,200 mg/kg

Acute inhalation toxicity: LC50 rat: 5.1 mg/l
Exposure time: 4 h

Acute dermal toxicity: LD50 Dermal rat: > 2,000 mg/kg

Skin corrosion/irritation
Product
no data available

Serious eye damage/eye irritation
Product
Causes serious eye damage.

Respiratory or skin sensitization
Product
May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity
Product
Mutagenicity: no data available

Carcinogenicity
Product
Carcinogenicity: Suspected of causing cancer.

IARC
Group 2B: Possibly carcinogenic to humans
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

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.

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.

Component:

<table>
<thead>
<tr>
<th>Component</th>
<th>Toxicity to daphnia and other aquatic invertebrates Chronic toxicity: EC50 Species: Daphnia Concentration: 40.20 mg/l Exposure time: 2 d Toxicity to daphnia and other aquatic invertebrates Chronic toxicity: NOEC Species: Daphnia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardener MI (isophoronedi(morpholinoa ldimine))</td>
<td>1217271-02-7</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 regulated

IATA
UN number 3082
Description of the goods Environmentally hazardous substance, liquid, n.o.s.
(diphenyl-tolyl-phosphate, triphenyl-phosphate)
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.
(diphenyl-tolyl-phosphate, triphenyl-phosphate)
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.

This product contains a substance regulated under a TSCA Significant New Use Rule (SNUR) at 40 CFR 721.10774. The SNUR states that the substance: (1) may only be imported, (2) may only be used as a: Latent hardener in polyurethane membranes, and (3) may not be imported above the total volume in the TSCA Section 5(e) Consent Order. These SNUR requirements do not apply after the substance has been completely reacted (cured). The substance is subject to TSCA Section 12(b) export notification (PMN Case Number P-13-239; generic chemical identity: Amine adduct).

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.
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

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>3</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>x</td>
</tr>
</tbody>
</table>

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.

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Revision Date 05/05/2014

Material number: 473864