



## 1. Identification

Product name : Sikalastic®-641

Supplier : Sika Corporation

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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

Flammable liquids , Category 4	H227: Combustible liquid.
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 : H227 Combustible liquid.  
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.

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

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.

P370 + P378 In case of fire: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment for extinction.

**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.

**3. Composition/information on ingredients**

**Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (%)
titanium dioxide	13463-67-7	>= 10 - < 20 %
Hardener MTJ (Polyoxypropylenetri(morpholinoaldimine))	1379822-00-0	>= 5 - < 10 %



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Propylene carbonate	108-32-7	>= 5 - < 10 %
Hardener MI (Isophoronedimethyl(morpholinoaldimine))	1217271-02-7	>= 2 - < 5 %
Isophorondiisocyanate homopolymer	53880-05-0	>= 2 - < 5 %
tris(methylphenyl) phosphate	1330-78-5	>= 0 - < 1 %
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	>= 0 - < 1 %
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7	>= 0 - < 1 %
1-ethylpyrrolidin-2-one	2687-91-4	>= 0 - < 1 %
2,2-Dimethyl-3-(4-morpholinyl)propanal	23588-51-4	>= 0 - < 1 %
4,5-dichloro-2-octyl-2H-isothiazol-3-one	64359-81-5	>= 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 : 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 : Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : Water
- 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.
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**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.
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**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 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
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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

Component	CAS-No.	Basis **	Value	Exposure limit(s)* / Form of exposure
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
triphenyl-phosphate	115-86-6	ACGIH	TWA	3 mg/m3
		OSHA Z-1	TWA	3 mg/m3
		OSHA P0	TWA	3 mg/m3
Solvent naphtha (petroleum), light arom.	64742-95-6	OSHA Z-1	TWA	500 ppm 2,000 mg/m3
		ACGIH	TWA	200 mg/m3
		OSHA P0	TWA	400 ppm 1,600 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 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.

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## 9. Physical and chemical properties

Appearance	: liquid
Color	: various
Odor	: mild
Odor Threshold	: no data available
Flash point	: 199 °F (93 °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	: Note: not applicable
Melting point/range /	: no data available



Freezing point	:	
Boiling point/boiling range	:	no data available
Vapor pressure	:	no data available
Density	:	ca.1.43 g/cm <sup>3</sup> at 68 °F (20 °C)
Water solubility	:	Note: insoluble
Partition coefficient: n-octanol/water	:	no data available
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	> 7 mm <sup>2</sup> /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	:	100 g/l

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## 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	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	no data available

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## 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 (Isophoronedimethacrylate(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

titanium dioxide 13463-67-7

**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: 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

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**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:**

Hardener MI  
(Isophoronedimethacrylate(morpholinoacrylamide))

1217271-02-7

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  
Concentration: 17.10 mg/l  
Exposure time: 2 d



Isophorondiisocyanate  
homopolymer

53880-05-0

Toxicitytodaphniaandotheraquaticinvertebrates: -  
EC50

Species: Daphnia magna (Water flea)

Dose: &gt; 100 mg/l

Exposure time: 48 h

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### 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.

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### 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

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## 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 Fire 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.



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**16. Other information****HMIS Classification**

<b>Health</b>	*	3
<b>Flammability</b>		2
<b>Physical Hazard</b>		0
<b>Personal Protection</b>		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.

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**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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