1. Identification

Product name : SikaFast®-3341 Part A

Supplier : Sika Corporation
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Lyndhurst, NJ 07071
USA
www.sikausa.com

Telephone : (201) 933-8800
Telefax : (201) 804-1076
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.

2. Hazards identification

GHS Classification

- Flammable liquids, Category 2 : H225: Highly flammable liquid and vapor.
- Skin corrosion, Category 1A : H314: Causes severe skin burns and eye damage.
- Serious eye damage, Category 1 : H318: Causes serious eye damage.
- Skin sensitization, Category 1 : H317: May cause an allergic skin reaction.
- Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system : H335: May cause respiratory irritation.

GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements :
- H225: Highly flammable liquid and vapor.
- H314: Causes severe skin burns and eye damage.
- H317: May cause an allergic skin reaction.
- H335: May cause respiratory irritation.

Precautionary Statements :
Prevention:
- P210 Keep away from heat/sparks/open flames/hot surfaces.
- No smoking.
- P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment. 
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. 
P242 Use only non-sparking tools. 
P243 Take precautionary measures against static discharge. 
P260 Do not breathe dusts or mists. 
P271 Use only outdoors or in a well-ventilated area. 
P272 Contaminated work clothing must not be allowed out of the workplace. 
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 

Response: 
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 IF INHALED: Remove person to fresh air and keep 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. 
P310 Immediately call a POISON CENTER/doctor. 
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 dry sand, dry chemical or alcohol-resistant foam to extinguish. 

Storage: 
P403 + P233 Store in a well-ventilated place. Keep container tightly closed. 
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. 
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 

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>methyl methacrylate</td>
<td>80-62-6</td>
<td>&gt;= 50 - &lt;= 100 %</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. 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.


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 : Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing media : Water. High volume water jet.
6. Accidental release measures

Specific hazards during fire fighting: Do not use a solid water stream as it may scatter and spread fire.

Specific extinguishing methods: Use water spray to cool unopened containers. 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. Remove all sources of ignition. Deny access to unprotected persons. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions: Prevent product from entering drains. 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: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Follow standard hygiene measures when handling chemical products.

Conditions for safe storage: Store in original container. Store in cool place. 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
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>methyl methacrylate</td>
<td>80-62-6</td>
<td>ACGIH</td>
<td>TWA</td>
<td>50 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>STEL</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA P0</td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAL PEL</td>
<td>PEL</td>
<td>50 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAL PEL</td>
<td>STEL</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Methacrylic acid</td>
<td>79-41-4</td>
<td>ACGIH</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OSHA P0</td>
<td>TWA</td>
<td>20 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CAL PEL</td>
<td>PEL</td>
<td>20 ppm</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 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.

9. Physical and chemical properties

Appearance : viscous liquid

Color : off-white

Odor : characteristic

Odor Threshold : No data available

Flash point : 50 °F (10 °C)

Ignition temperature : 154 °F (68 °C)

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

pH : Note: Not applicable

Melting point/range / Freezing point : No data available

Initial boiling point and boiling range : 212 °F (100 °C)

Vapor pressure : 30 mmHg (40 hpa)

Density : 0.934 g/cm³

Water solubility : Note: negligible
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: 25 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. Vapors may form explosive mixture with air.
Conditions to avoid: Heat, flames and sparks.
Incompatible materials: No data available

11. Toxicological information
Not classified based on available information.
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
NTP: Not applicable
Reproductive toxicity
Not classified based on available information.
STOT-single exposure
May cause respiratory irritation.

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.

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.

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
UN number 2924
Description of the goods Flammable liquids, corrosive, n.o.s. (methyl methacrylate, Methacrylic acid)
Class 3
Packing group II
Labels 3 (8)
Emergency Response 132
Guidebook Number

IATA
UN number 2924
Description of the goods Flammable liquid, corrosive, n.o.s. (methyl methacrylate, Methacrylic acid)
Class 3
Packing group II
Labels 3 (8)
Packing instruction (cargo aircraft) 363
Packing instruction (passenger aircraft) 352
Packing instruction (passenger aircraft) Y340

IMDG
UN number 2924
Description of the goods FLAMMABLE LIQUID, CORROSIVE, N.O.S. (methyl methacrylate, Methacrylic acid)
Class 3
Packing group II
Labels 3 (8)
EmS Number 1 F-E
EmS Number 2 S-C
Marine pollutant no

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

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>methyl methacrylate</td>
<td>80-62-6</td>
<td>1000</td>
</tr>
</tbody>
</table>

SARA304 Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
                        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 : The following components are subject to reporting levels established by SARA Title III, Section 313:
            methyl methacrylate 80-62-6 65.00 %
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).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

methyl methacrylate 80-62-6 65.00 %

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
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. Other information

HMIS Classification

<table>
<thead>
<tr>
<th>Health</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>3</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
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Revision Date 09/21/2016

Material number: 530366