



1. Identification


| | |
|---|--|
| Product name | : Sikalastic® PF Lo-VOC Primer Part B |
| Supplier | : Sika Corporation 201 Polito Avenue 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: 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

| | |
|--|---|
| Skin corrosion, Category 1C | 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. |
| Carcinogenicity, Category 1A (Inhalation) | H350i: May cause cancer by inhalation. |
| Specific target organ systemic toxicity - repeated exposure, Category 1, Lungs | H372: Causes damage to organs through prolonged or repeated exposure. |
| Specific target organ systemic toxicity - repeated exposure, Category 2, Kidney (Oral) | H373: May cause damage to organs through prolonged or repeated exposure if swallowed. |

GHS label elements

| | |
|-------------------|--|
| Hazard pictograms | :  |
| Signal Word | : Danger |
| Hazard Statements | : H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H350i May cause cancer by inhalation. H372 Causes damage to organs (Lungs) through prolonged or repeated exposure. H373 May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed. |



Precautionary Statements : **Prevention:**
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
 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.
 P281 Use personal protective equipment as required.
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.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 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.
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 $\geq 1\%$.

3. Composition/information on ingredients

Hazardous ingredients

| Chemical name | CAS-No. | Concentration (%) |
|--|-------------|--------------------|
| Formaldehyde, polymer with benzenamine, hydrogenated | 135108-88-2 | $\geq 10 - < 20\%$ |
| Benzyl alcohol | 100-51-6 | $\geq 5 - < 10\%$ |
| Fatty acids, tall-oil, reaction products with | 68953-36-6 | $\geq 5 - < 10\%$ |



| | | |
|---------------------------------------|------------|----------------|
| tetraethylenepentamine | | |
| Quartz (SiO ₂) | 14808-60-7 | >= 5 - < 10 % |
| 2,4,6-tris(dimethylaminomethyl)phenol | 90-72-2 | >= 1 - < 2 % |
| m-phenylenebis(methylamine) | 1477-55-0 | >= 0.1 - < 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.
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
carcinogenic effects
- Allergic reactions
Dermatitis
See Section 11 for more detailed information on health effects and symptoms.
- May cause an allergic skin reaction.
Causes serious eye damage.
May cause cancer by inhalation.
Causes damage to organs through prolonged or repeated exposure.
Causes severe burns.
- 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 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. 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

| Component | CAS-No. | Basis ** | Value | Exposure limit(s)* / Form of exposure |
|-----------------------------|------------|----------|-------|---|
| barium sulfate | 7727-43-7 | OSHA P0 | TWA | 10 mg/m3 Total |
| | | OSHA P0 | TWA | 5 mg/m3 Respirable fraction |
| | | OSHA Z-1 | TWA | 15 mg/m3 total dust |
| | | OSHA Z-1 | TWA | 5 mg/m3 respirable fraction |
| | | ACGIH | TWA | 5 mg/m3 Inhalable fraction |
| | | OSHA P0 | TWA | 10 mg/m3 Total dust |
| | | OSHA P0 | TWA | 5 mg/m3 respirable dust fraction |
| Quartz (SiO ₂) | 14808-60-7 | OSHA Z-3 | TWA | 10 mg/m3 / %SiO ₂ +2 respirable |
| | | OSHA Z-3 | TWA | 250 mppcf / %SiO ₂ +5 respirable |
| | | OSHA P0 | TWA | 0.1 mg/m3 Respirable fraction |
| | | ACGIH | TWA | 0.025 mg/m3 Respirable fraction |
| | | OSHA Z-1 | TWA | 0.05 mg/m3 Respirable dust |
| m-phenylenebis(methylamine) | 1477-55-0 | ACGIH | C | 0.1 mg/m3 |
| | | OSHA P0 | C | 0.1 mg/m3 |

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| | | | | |
|--|--|-----------|---|-----------------------|
| | | NIOSH REL | C | 0.1 mg/m ³ |
| | | CAL PEL | C | 0.1 mg/m ³ |

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety datasheet.

****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.

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 | : liquid |
| Color | : white |
| Odor | : aromatic |
| Odor Threshold | : No data available |
| Flash point | : > 201 °F (> 94 °C) |
| Ignition temperature | : No data available |
| 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 |
| Boiling point/boiling range | : 374 °F (190 °C) |
| Vapor pressure | : 0.05 mmHg (0.07 hpa) |
| Density | : 2.03 g/cm ³ at 73 °F (23 °C) |
| Water solubility | : Note: slightly soluble |
| Partition coefficient: n- octanol/water | : No data available |
| Viscosity, dynamic | : No data available |
| Viscosity, kinematic | : > 20.5 mm ² /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 | : 91 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:**Benzyl 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 |

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 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.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Lungs) through prolonged or repeated exposure.



May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed. 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.

Carcinogenicity

May cause cancer by inhalation.

IARC

Group 1: Carcinogenic to humans

Quartz (SiO₂) 14808-60-7
Group 2B: Possibly carcinogenic to humans

NTP

titanium dioxide 13463-67-7
Known to be human carcinogen

Quartz (SiO₂) 14808-60-7

Titanium dioxide (13463-67-7)

In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have been shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes into contact with the lung. However, tests with other laboratory animals such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that cause lung cancer. Epidemiology studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

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:

| | | |
|----------------|----------|--|
| Benzyl alcohol | 100-51-6 | <u>Toxicity to fish:</u> LC50 Species: Fish Dose: > 100 mg/l Exposure time: 96 h |
|----------------|----------|--|

Toxicity to daphnia and other aquatic invertebrates:



EC50
Species: Daphnia magna (Water flea)
Dose: > 100 mg/l
Exposure time: 48 h

2,4,6-
tris(dimethylaminomethyl)p
henol

90-72-2

Toxicity to algae:
EC50
Species: Scenedesmus capricornutum (fresh water algae)
Dose: > 10 - 100 mg/l
Exposure time: 72 h

m-
phenylenebis(methylamine
)

1477-55-0

Toxicity to fish:
LC50
Species: Oryzias latipes (Japanese medaka)
Dose: > 10 - 100 mg/l
Exposure time: 96 h

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

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 | 1760 |
| Description of the goods | Corrosive liquids, n.o.s. (Formaldehyde, polymer with benzenamine, hydrogenated) |
| Class | 8 |
| Packing group | III |
| Labels | 8 |
| Emergency Response Guidebook Number | 154 |

IATA

| | |
|--------------------------|--|
| UN number | 1760 |
| Description of the goods | Corrosive liquid, n.o.s. (Formaldehyde, polymer with benzenamine, hydrogenated, |



| | |
|--|--|
| | Fatty acids, tall-oil, reaction products with tetraethylenepentamine) |
| Class | 8 |
| Packing group | III |
| Labels | 8 |
| Packing instruction (cargo aircraft) | 856 |
| Packing instruction (passenger aircraft) | 852 |
| Packing instruction (passenger aircraft) | Y841 |
| IMDG | |
| UN number | 1760 |
| Description of the goods | CORROSIVE LIQUID, N.O.S. (Formaldehyde, polymer with benzenamine, hydrogenated, Fatty acids, tall-oil, reaction products with tetraethylenepentamine) |
| Class | 8 |
| Packing group | III |
| Labels | 8 |
| EmS Number 1 | F-A |
| EmS Number 2 | S-B |
| Marine pollutant | yes |

DOT: For Limited Quantity exceptions reference 49 CFR 173.154 (b)

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.

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 : Chronic Health Hazard

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Skin corrosion or irritation
 Serious eye damage or eye irritation
 Respiratory or skin sensitization
 Carcinogenicity
 Specific target organ toxicity (single or repeated exposure)

SARA 302 : This material does not contain any components with a section 302 EHS TPQ.

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 112 (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:** Cancer – www.P65Warnings.ca.gov

16. Other information

HMIS Classification

| | | |
|----------------------------|---|---|
| Health | * | 3 |
| Flammability | | 1 |
| Physical Hazard | | 0 |
| Personal Protection | | 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.

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

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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 04/02/2018

Material number: 493406