

**METHACRYLOXYPROPYLTRIMETHOXYSILANE**

Safety Data Sheet SIM6487.4

Date of issue: 01/12/2015      Version: 1.0

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

|                 |   |
|-----------------|---|
| Product form    | : Substance   |
| Physical state  | : Liquid  |
| Substance name  | : METHACRYLOXYPROPYLTRIMETHOXYSILANE                |
| Product code    | : SIM6487.4   |
| Formula         | : C <sub>10</sub> H <sub>20</sub> O <sub>5</sub> Si |
| Synonyms        | : 3-TRIMETHOXYSILYL)PROPYLMETHACRYLATE              |
| Chemical family | : ORGANOMETHOXYSILANE                               |

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

|                              |   |
|------------------------------|---|
| Use of the substance/mixture | : Chemical intermediate<br>For research and industrial use only |
|------------------------------|---|

**1.3. Details of the supplier of the safety data sheet****GELEST, INC.**11 East Steel Road  
Morrisville, PA 19067**USA**

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

[info@gelest.com](mailto:info@gelest.com) - [www.gelest.com](http://www.gelest.com)**1.4. Emergency telephone number**

|                  |   |
|------------------|---|
| Emergency number | : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International) |
|------------------|---|

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (GHS-US)**

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Full text of H-phrases: see section 16

**2.2. Label elements****GHS-US labeling**

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) :

: Warning

Hazard statements (GHS-US) :

: H315 - Causes skin irritation  
H319 - Causes serious eye irritation

Precautionary statements (GHS-US) :

: P264 - Wash hands thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 - If on skin: Wash with plenty of water/...  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P321 - Specific treatment (see ... on this label)  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse**2.3. Other hazards**

Other hazards not contributing to the classification

: Classification (GHS-UN). Acute toxicity (oral) Category 5.

**2.4. Unknown acute toxicity (GHS-US)**

No data available

# METHACRYLOXYPROPYLTRIMETHOXYSILANE

## Safety Data Sheet

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

|                |                                      |
|----------------|--------------------------------------|
| Substance type | : Mono-constituent                   |
| Name           | : METHACRYLOXYPROPYLTRIMETHOXYSILANE |
| CAS No         | : 2530-85-0                          |
| EC no          | : 219-785-8                          |

| Name   | Product identifier | %      | Classification (GHS-US)   |
|--|--------------------|--------|---|
| Methacryloxypropyltrimethoxysilane                           | (CAS No) 2530-85-0 | > 95   | Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319  |
| Inhibitors (hindered phenol and/or hydroquinone derivatives) |                    | < 0.05 | Not classified  |
| Methanol   | (CAS No) 67-56-1   |        | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation:vapour), H331<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 1, H370<br>STOT SE 3, H336 |

#### 3.2. Mixture

Not applicable

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label. |
| First-aid measures after inhalation   | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.  |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Get medical advice/attention.  |
| First-aid measures after eye contact  | : Immediately call a poison center or doctor/physician. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.  |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Get medical advice/attention.   |

#### 4.2. Most important symptoms and effects, both acute and delayed

|                                      |   |
|--------------------------------------|---|
| Symptoms/injuries after inhalation   | : May cause irritation to the respiratory tract. Overexposure may cause: Cough. Headache. Nausea.                               |
| Symptoms/injuries after skin contact | : Causes skin irritation.   |
| Symptoms/injuries after eye contact  | : Causes serious eye irritation.  |
| Symptoms/injuries after ingestion    | : May be harmful if swallowed.  |
| Chronic symptoms                     | : On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system. |

#### 4.3. Indication of any immediate medical attention and special treatment needed

NOTE TO PHYSICIAN: This product reacts with water in the acid contents of the stomach to form methanol. The combination of visual disturbances, metabolic acidosis and formic acid in urine is evidence of methanol poisoning. The therapeutic intravenous administration of ethanol (10 mls/hour) allows methanol to be preferentially oxidized and reduces production of methanol metabolites. Acidosis must be treated with intravenous administration of sodium bicarbonate and methanol elimination may be increased by hemodialysis, as indicated. Treatment should be based on blood methanol levels and acid-base balance.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.

# METHACRYLOXYPROPYLTRIMETHOXSILANE

## Safety Data Sheet

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent accumulation of vapors.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials : Moisture. Water.

Storage area : Store in a well-ventilated place. Store away from heat.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Methanol (67-56-1) |                                       |                       |
|--------------------|---------------------------------------|-----------------------|
| USA ACGIH          | ACGIH TWA (ppm)                       | 200 ppm               |
| USA ACGIH          | ACGIH STEL (ppm)                      | 250 ppm               |
| USA NIOSH          | NIOSH REL (TWA) (mg/m <sup>3</sup> )  | 260 mg/m <sup>3</sup> |
| USA NIOSH          | NIOSH REL (TWA) (ppm)                 | 200 ppm               |
| USA NIOSH          | NIOSH REL (STEL) (mg/m <sup>3</sup> ) | 325 mg/m <sup>3</sup> |
| USA NIOSH          | NIOSH REL (STEL) (ppm)                | 250 ppm               |
| USA OSHA           | OSHA PEL (TWA) (mg/m <sup>3</sup> )   | 260 mg/m <sup>3</sup> |
| USA OSHA           | OSHA PEL (TWA) (ppm)                  | 200 ppm               |
| USA IDLH           | US IDLH (ppm)                         | 6000 ppm              |

#### 8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

Eye protection : Chemical goggles. Contact lenses should not be worn.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : NIOSH-certified organic vapor (black cartridge) respirator.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear liquid.

Molecular mass : 248.35 g/mol

Color : Straw.

Odor : Mild.

# METHACRYLOXYPROPYLTRIMETHOXYSIANE

## Safety Data Sheet

|   |  |
|---|--|
| Odor threshold                              | : No data available                      |
| Refractive index                            | : 1.431                                  |
| pH  | : No data available                      |
| Relative evaporation rate (butyl acetate=1) | : < 1                                    |
| Melting point                               | : -48 °C                                 |
| Freezing point                              | : No data available                      |
| Boiling point                               | : 78 - 81 °C @ 1 mm Hg                   |
| Flash point                                 | : 108 °C                                 |
| Auto-ignition temperature                   | : No data available                      |
| Decomposition temperature                   | : No data available                      |
| Flammability (solid, gas)                   | : No data available                      |
| Vapor pressure                              | : < 0.5 mm Hg @ 25°C                     |
| Relative vapor density at 20 °C             | : > 1                                    |
| Relative density                            | : 1.045                                  |
| VOC content                                 | : < 5 %                                  |
| Solubility                                  | : Insoluble in water. Reacts with water. |
| Log Pow                                     | : No data available                      |
| Log Kow                                     | : No data available                      |
| Viscosity, kinematic                        | : 2 cSt                                  |
| Viscosity, dynamic                          | : No data available                      |
| Explosive properties                        | : No data available                      |
| Oxidizing properties                        | : No data available                      |
| Explosive limits                            | : 0.9 - 5.4 vol %                        |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable in sealed containers stored in the dark at 0-5°C. Polymerization can occur when stored at elevated temperature.

### 10.3. Possibility of hazardous reactions

Reacts with water and moisture in air, liberating methanol.

### 10.4. Conditions to avoid

Heat. Sparks. Open flame.

### 10.5. Incompatible materials

Water. Moisture.

### 10.6. Hazardous decomposition products

Methanol. Organic acid vapors.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| <b>Methanol (67-56-1)</b> |                                |
|---------------------------|--------------------------------|
| LD50 oral rat             | 6200 mg/kg                     |
| LD50 dermal rabbit        | 20 g/kg                        |
| LC50 inhalation rat (ppm) | 22500 ppm (Exposure time: 8 h) |
| ATE US (oral)             | 100.000 mg/kg body weight      |
| ATE US (dermal)           | 300.000 mg/kg body weight      |
| ATE US (vapors)           | 3.000 mg/l/4h                  |

| <b>Methacryloxypropyltrimethoxysilane (2530-85-0)</b> |   |
|---|---|
| LD50 oral rat   | 3000 mg/kg  |
| Skin corrosion/irritation                             | : Causes skin irritation.<br>Skin Irritation - rabbit: 500 mg/24H: mild   |
| Serious eye damage/irritation                         | : Causes serious eye irritation.<br>Eye Irritation - rabbit: 500 mg/24H: mild<br>Primary irritation index: 1.19 |

# METHACRYLOXYPROPYLTRIMETHOXYSILANE

## Safety Data Sheet

### Methanol (67-56-1)

|  |   |
|--|---|
| Respiratory or skin sensitization                  | : Not classified  |
| Germ cell mutagenicity                             | : Not classified  |
| Carcinogenicity                                    | : Not classified  |
| Reproductive toxicity                              | : Not classified  |
| Specific target organ toxicity (single exposure)   | : Not classified  |
| Specific target organ toxicity (repeated exposure) | : Not classified  |
| Aspiration hazard                                  | : Not classified  |
| Symptoms/injuries after inhalation                 | : May cause irritation to the respiratory tract. Overexposure may cause: Cough. Headache. Nausea.                               |
| Symptoms/injuries after skin contact               | : Causes skin irritation.   |
| Symptoms/injuries after eye contact                | : Causes serious eye irritation.  |
| Symptoms/injuries after ingestion                  | : May be harmful if swallowed.  |
| Chronic symptoms                                   | : On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system. |

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Methanol (67-56-1)

|             |  |
|-------------|--|
| LC50 fish 1 | 28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 fish 2 | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])       |

#### Methacryloxypropyltrimethoxysilane (2530-85-0)

|                |                |
|----------------|----------------|
| EC50 Daphnia 1 | > 876 mg/l 48h |
|----------------|----------------|

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

#### Methanol (67-56-1)

|            |       |
|------------|-------|
| BCF fish 1 | < 10  |
| Log Pow    | -0.77 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

|                              |   |
|------------------------------|---|
| Other adverse effects        | : This substance may be hazardous to the environment. |
| Effect on ozone layer        | : No additional information available                 |
| Effect on the global warming | : No known ecological damage caused by this product.  |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                |  |
|--------------------------------|--|
| Waste disposal recommendations | : May be incinerated. Dispose of contents/container to licensed waste disposal facility. |
| Ecology - waste materials      | : Avoid release to the environment.  |

## SECTION 14: Transport information

### 14.1. UN number

Not regulated for transport.

### 14.2. UN proper shipping name

Not applicable

### 14.3. Additional information

Other information : No supplementary information available.

### Transport by sea

No additional information available

### Air transport

No additional information available

# METHACRYLOXYPROPYLTRIMETHOXYSILANE

## Safety Data Sheet

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Methanol (67-56-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting 1.0 %

##### Methacryloxypropyltrimethoxysilane (2530-85-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### Methanol (67-56-1)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Japanese Poisonous and Deleterious Substances Control Law  
Listed on the Canadian IDL (Ingredient Disclosure List)

##### Methacryloxypropyltrimethoxysilane (2530-85-0)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Canadian IDL (Ingredient Disclosure List)

#### 15.3. US State regulations

##### METHACRYLOXYPROPYLTRIMETHOXYSILANE(2530-85-0)

U.S. - California - Proposition 65 - Carcinogens List No

U.S. - California - Proposition 65 - Developmental Toxicity No

U.S. - California - Proposition 65 - Reproductive Toxicity - Female No

U.S. - California - Proposition 65 - Reproductive Toxicity - Male No

##### Methanol (67-56-1)

|   |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
| No  | Yes   | No  | No  |                                   |

##### Inhibitors (hindered phenol and/or hydroquinone derivatives)

|   |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
| No  | No  | No  | No  |                                   |

##### Methacryloxypropyltrimethoxysilane (2530-85-0)

|   |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
| No  | No  | No  | No  |                                   |

##### Methanol (67-56-1)

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)  
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute  
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic  
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)  
U.S. - Colorado - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues

# METHACRYLOXYPROPYLTRIMETHOXYSILANE

## Safety Data Sheet

### Methanol (67-56-1)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)  
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)  
U.S. - Connecticut - Volatile Substances  
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations  
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)  
U.S. - Idaho - Occupational Exposure Limits - TWAs  
U.S. - Illinois - Toxic Air Contaminants  
U.S. - Louisiana - Reportable Quantity List for Pollutants  
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants  
U.S. - Maine - Chemicals of High Concern  
U.S. - Massachusetts - Allowable Ambient Limits (AALs)  
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2  
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1  
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2  
U.S. - Massachusetts - Right To Know List  
U.S. - Massachusetts - Threshold Effects Exposure Limits (TEELs)  
U.S. - Massachusetts - Toxics Use Reduction Act  
U.S. - Michigan - Occupational Exposure Limits - Skin Designations  
U.S. - Michigan - Occupational Exposure Limits - STELs  
U.S. - Michigan - Occupational Exposure Limits - TWAs  
U.S. - Michigan - Polluting Materials List  
U.S. - Minnesota - Chemicals of High Concern  
U.S. - Minnesota - Groundwater Health Risk Limits  
U.S. - Minnesota - Hazardous Substance List  
U.S. - Minnesota - Permissible Exposure Limits - Skin Designations  
U.S. - Minnesota - Permissible Exposure Limits - STELs  
U.S. - Minnesota - Permissible Exposure Limits - TWAs  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances  
U.S. - New Jersey - Environmental Hazardous Substances List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Jersey - Special Health Hazards Substances List  
U.S. - New Jersey - Water Quality - Ground Water Quality Criteria  
U.S. - New Jersey - Water Quality - Practical Quantitation Levels (PQLs)  
U.S. - New York - Occupational Exposure Limits - Skin Designations  
U.S. - New York - Occupational Exposure Limits - TWAs  
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour  
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour  
U.S. - North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues  
U.S. - Oregon - Permissible Exposure Limits - TWAs  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 1-Hour  
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - Annual  
U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations  
U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories  
U.S. - Tennessee - Occupational Exposure Limits - Skin Designations  
U.S. - Tennessee - Occupational Exposure Limits - STELs  
U.S. - Tennessee - Occupational Exposure Limits - TWAs  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term  
U.S. - Vermont - Permissible Exposure Limits - Skin Designations  
U.S. - Vermont - Permissible Exposure Limits - STELs  
U.S. - Vermont - Permissible Exposure Limits - TWAs  
U.S. - Washington - Dangerous Waste - Discarded Chemical Products List  
U.S. - Washington - Permissible Exposure Limits - Skin Designations  
U.S. - Washington - Permissible Exposure Limits - STELs  
U.S. - Washington - Permissible Exposure Limits - TWAs

### Methacryloxypropyltrimethoxysilane (2530-85-0)

U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

# METHACRYLOXYPROPYLTRIMETHOXYSILANE

## Safety Data Sheet

### SECTION 16: Other information

#### Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

#### Full text of H-phrases::

|                                  |   |
|----------------------------------|---|
| Acute Tox. 3 (Dermal)            | Acute toxicity (dermal) Category 3                          |
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapor) Category 3                |
| Acute Tox. 3 (Oral)              | Acute toxicity (oral) Category 3                            |
| Eye Dam. 1                       | Serious eye damage/eye irritation Category 1                |
| Eye Irrit. 2A                    | Serious eye damage/eye irritation Category 2A               |
| Flam. Liq. 2                     | Flammable liquids Category 2                                |
| Skin Irrit. 2                    | Skin corrosion/irritation Category 2                        |
| STOT SE 1                        | Specific target organ toxicity (single exposure) Category 1 |
| STOT SE 3                        | Specific target organ toxicity (single exposure) Category 3 |
| H225                             | Highly flammable liquid and vapor                           |
| H301                             | Toxic if swallowed  |
| H311                             | Toxic in contact with skin                                  |
| H315                             | Causes skin irritation                                      |
| H318                             | Causes serious eye damage                                   |
| H319                             | Causes serious eye irritation                               |
| H331                             | Toxic if inhaled  |
| H336                             | May cause drowsiness or dizziness                           |
| H370                             | Causes damage to organs                                     |

#### HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given  
Flammability : 2 Moderate Hazard  
Physical : 1 Slight Hazard

Prepared by safety and environmental affairs.

Date of issue: 01/12/2015 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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