

**TRIMETHYL-n-PROPOXYSILANE**

Safety Data Sheet SIT8568.0

Date of issue: 04/22/2016

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  | : TRIMETHYL-n-PROPOXYSILANE          |
| Product code    | : SIT8568.0                          |
| Formula         | : C <sub>6</sub> H <sub>16</sub> OSi |
| Synonyms        | : PROPOXYTRIMETHYLSILANE             |
| Chemical family | : ORGANOSILANE ESTER                 |

**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****GHS-US classification**

Flam. Liq. 2 H225

Eye Irrit. 2A H319

Full text of H statements : see section 16

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

Hazard pictograms (GHS-US)



GHS02

GHS07

Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H225 - Highly flammable liquid and vapor  
H319 - Causes serious eye irritation

Precautionary statements (GHS-US)

: P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P210 - Keep away from heat, open flames, sparks. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P264 - Wash hands thoroughly after handling  
P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish  
P403+P235 - Keep in a cool place  
P501 - Dispose of contents/container to licensed waste disposal facility**2.3. Other hazards**

No additional information available

# TRIMETHYL-n-PROPOXYSILANE

## Safety Data Sheet

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substance

|                |                             |
|----------------|-----------------------------|
| Substance type | : Mono-constituent          |
| Name           | : TRIMETHYL-n-PROPOXYSILANE |
| CAS No         | : 1825-63-4                 |
| EC no          | : 217-371-1                 |

| Name                      | Product identifier | %        | GHS-US classification                     |
|---------------------------|--------------------|----------|-------------------------------------------|
| Trimethyl-n-propoxysilane | (CAS No) 1825-63-4 | 95 - 100 | Flam. Liq. 2, H225<br>Eye Irrit. 2A, H319 |

### 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  | : Remove contact lenses, if present and easy to do. Continue rinsing. Immediately flush eyes thoroughly with water for at least 15 minutes. 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. |
| Symptoms/injuries after skin contact | : May cause skin irritation.                     |
| Symptoms/injuries after eye contact  | : Causes serious eye irritation.                 |
| Symptoms/injuries after ingestion    | : No information available.                      |

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                    |
|--------------------------------|----------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Foam. Carbon dioxide. Dry chemical. |
| Unsuitable extinguishing media | : Do not use straight streams.                     |

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

|                  |                                                                                                                                                            |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire hazard      | : Highly flammable liquid and vapor. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame. |
| Explosion hazard | : May form flammable/explosive vapor-air mixture.                                                                                                          |

### 5.3. Advice for firefighters

|                                |                                                                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.                                                                     |
| 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. |

## SECTION 6: Accidental release measures

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

|                  |                                                                                                   |
|------------------|---------------------------------------------------------------------------------------------------|
| General measures | : Eliminate every possible source of ignition. Use special care to avoid static electric charges. |
|------------------|---------------------------------------------------------------------------------------------------|

#### 6.1.1. For non-emergency personnel

|                      |                                                        |
|----------------------|--------------------------------------------------------|
| Protective equipment | : Wear protective equipment as described in Section 8. |
| Emergency procedures | : Evacuate unnecessary personnel.                      |

#### 6.1.2. For emergency responders

|                      |                                                                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# TRIMETHYL-n-PROPOXYSILANE

## Safety Data Sheet

### 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

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- 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. Use only non-sparking tools.

### 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

- Additional hazards when processed : Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Handle empty containers with care because residual vapors are flammable.
- Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and receiving equipment. Provide good ventilation in process area to prevent accumulation of vapors. Take precautionary measures against static discharge. Use only non-sparking tools.
- Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.
- Storage conditions : Keep container tightly closed. Keep in a cool place.
- Incompatible materials : Acids. Oxidizing agent. Peroxides.
- 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

No additional information available

### 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 : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified combination organic vapor - gas (yellow 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 : 132.28 g/mol
- Color : Straw.
- Odor : Mild. Pleasant.
- Odor threshold : No data available
- Refractive index : 1.384
- pH : No data available
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : < 0 °C
- Boiling point : 101 - 102 °C
- Flash point : 10 °C
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available

# TRIMETHYL-n-PROPOXYSILANE

## Safety Data Sheet

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| Flammability (solid, gas)       | : Highly flammable liquid and vapor             |
| Vapor pressure                  | : < 100 mm Hg @ 25°C                            |
| Relative vapor density at 20 °C | : > 1                                           |
| Relative density                | : 0.768                                         |
| VOC content                     | : 100 %                                         |
| Solubility                      | : Insoluble in water. Reacts slowly with water. |
| Log Pow                         | : No data available                             |
| Log Kow                         | : No data available                             |
| Viscosity, kinematic            | : No data available                             |
| Viscosity, dynamic              | : No data available                             |
| Explosive properties            | : No data available                             |
| Oxidizing properties            | : No data available                             |
| Explosion limits                | : No data available                             |

### 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 when stored in sealed containers.

### 10.3. Possibility of hazardous reactions

Reacts with water and moisture in air liberating propanol.

### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Acids. Oxidizing agent. Peroxides.

### 10.6. Hazardous decomposition products

Propanol. Organic acid vapors.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                                                    |                                                  |
|----------------------------------------------------|--------------------------------------------------|
| Acute toxicity                                     | : Not classified                                 |
| Skin corrosion/irritation                          | : Not classified                                 |
| Serious eye damage/irritation                      | : Causes serious eye irritation.                 |
| 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. |
| Symptoms/injuries after skin contact               | : May cause skin irritation.                     |
| Symptoms/injuries after eye contact                | : Causes serious eye irritation.                 |
| Symptoms/injuries after ingestion                  | : No information available.                      |
| Reason for classification                          | : Expert judgment                                |

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

# TRIMETHYL-n-PROPOXYSILANE

## Safety Data Sheet

### 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

Sewage disposal recommendations : Do not dispose of waste into sewer.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.  
Additional information : Handle empty containers with care because residual vapors are flammable.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### 14.1. UN number

UN-No.(DOT) : 1993  
DOT NA no. : UN1993

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Flammable liquids, n.o.s.  
(TRIMETHYL-n-PROPOXYSILANE)  
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
Hazard labels (DOT) : 3 - Flammable liquid



DOT Symbols : G - Identifies PSN requiring a technical name  
Packing group (DOT) : II - Medium Danger  
DOT Packaging Exceptions (49 CFR 173.xxx) : 150  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202  
DOT Packaging Bulk (49 CFR 173.xxx) : 242

### 14.3. Additional information

Emergency Response Guide (ERG) Number : 128  
Other information : No supplementary information available.

### Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded

### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L  
(49 CFR 173.27)  
DOT Quantity Limitations Cargo aircraft only (49 : 60 L  
CFR 175.75)

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Trimethyl-n-propoxysilane (1825-63-4)

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

### 15.2. International regulations

# TRIMETHYL-n-PROPOXYSILANE

## Safety Data Sheet

### Trimethyl-n-propoxysilane (1825-63-4)

Listed on the Canadian NDSL (Non-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

### 15.3. US State regulations

#### TRIMETHYL-n-PROPOXYSILANE(1825-63-4)

|                                                                     |    |
|---------------------------------------------------------------------|----|
| 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 |

#### Trimethyl-n-propoxysilane (1825-63-4)

|                                                       |                                                             |                                                                     |                                                                   |                                   |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|
| 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 | Non-significant risk level (NSRL) |
| No                                                    | No                                                          | No                                                                  | No                                                                |                                   |

## 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::

|      |                                   |
|------|-----------------------------------|
| H225 | Highly flammable liquid and vapor |
| H319 | Causes serious eye irritation     |

### HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur  
Flammability : 4 Severe Hazard  
Physical : 1 Slight Hazard

Prepared by safety and environmental affairs.

Date of issue: 04/22/2016 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

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

*The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.*

© 2016 Gelest Inc. Morrisville, PA 19067