# SECTION 1: Identification

## 1.1. Identification

<table>
<thead>
<tr>
<th>Product name</th>
<th>TRIS(3-TRIMETHOXYSILYLPROPYL)ISOCYANURATE, tech</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product code</td>
<td>SIT8717.0</td>
</tr>
<tr>
<td>Product form</td>
<td>Substance</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Formula</td>
<td>C21H45N3O12Si3</td>
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<tr>
<td>Synonyms</td>
<td>1,3,5-TRIS[3-(TRIMETHOXYSILYL)PROPYL]-1,3,5-TRIAZINE-2,4,6(1H,3H,5H)-TRIONE</td>
</tr>
<tr>
<td>Chemical family</td>
<td>ORGANOMETHOXYSILANE</td>
</tr>
</tbody>
</table>

## 1.2. Recommended use and restrictions on use

| Recommended use                  | Chemical intermediate                           |

## 1.3. Supplier

**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 - www.gelest.com

## 1.4. Emergency telephone number

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

# SECTION 2: Hazard(s) identification

## 2.1. Classification of the substance or mixture

**GHS US classification**

- **Acute toxicity (oral)** Category 4: H302 - Harmful if swallowed  
- **Skin corrosion/irritation** Category 2: H315 - Causes skin irritation  
- **Serious eye damage/eye irritation** Category 2A: H319 - Causes serious eye irritation  
- **Specific target organ toxicity – Single exposure, Category 3** Respiratory tract irritation: H335 - May cause respiratory irritation  

Full text of H statements: see section 16

## 2.2. GHS Label elements, including precautionary statements

**GHS US labeling**

- **Hazard pictograms (GHS US)**

- **Signal word (GHS US)**: Warning  
- **Hazard statements (GHS US)**:  
  - H302 - Harmful if swallowed  
  - H315 - Causes skin irritation  
  - H319 - Causes serious eye irritation  
  - H335 - May cause respiratory irritation  

- **Precautionary statements (GHS US)**:  
  - P261 - Avoid breathing vapors.  
  - P264 - Wash hands thoroughly after handling.  
  - P270 - Do not eat, drink or smoke when using this product.
TRIS(3-TRIMETHOXYISILYLPROPYL)ISOCYANURATE, tech
Safety Data Sheet

P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.
P302+P352 - If on skin: Wash with plenty of water.
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.
P312 - Call a doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to licensed waste disposal facility.

2.3. Hazards not otherwise classified (HNOC)
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mono-constituent</td>
<td>TRIS(3-TRIMETHOXYISILYLPROPYL)ISOCYANURATE, tech</td>
<td>26115-70-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]</td>
<td>CAS-No.: 26115-70-8</td>
<td>99</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>Methanol</td>
<td>CAS-No.: 67-56-1</td>
<td>&lt; 1</td>
<td>Flam. Liq. 2, H225</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

3.2. Mixtures
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.

First-aid measures after eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes. 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 (acute and delayed)

- **Symptoms/effects after inhalation**: May cause respiratory irritation. Overexposure may cause: Coughing. Headache. Nausea.
- **Symptoms/effects after skin contact**: Causes skin irritation. May cause sensitization by skin contact.
- **Symptoms/effects after eye contact**: Causes serious eye irritation.
- **Symptoms/effects after ingestion**: May be harmful if swallowed. Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness.

**Chronic symptoms**: On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system. Methanol may effect the central nervous system resulting in persistent or recurring headaches or impaired vision.

### 4.3. Immediate medical attention and special treatment, if necessary

**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: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

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

#### 5.2. Specific hazards arising from the chemical

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

#### 5.3. Special protective equipment and precautions for fire-fighters

- **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.

### 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.
TRIS(3-TRIMETHOXYSILYLPROPYL)ISOCYANURATE, tech
Safety Data Sheet

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: Avoid all eye and skin contact and do not breathe vapor and mist. 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.


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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Methanol (67-56-1)</th>
</tr>
</thead>
</table>

**USA - ACGIH - Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Local name</th>
<th>Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH OEL TWA [ppm]</td>
<td>200 ppm</td>
</tr>
<tr>
<td>ACGIH OEL STEL [ppm]</td>
<td>250 ppm</td>
</tr>
</tbody>
</table>

**Remark (ACGIH)**

TLV® Basis: Headache; eye dam; dizziness; nausea. Notations: Skin; BEI

**ACGIH chemical category**

Skin - potential significant contribution to overall exposure by the cutaneous route

**Regulatory reference**

ACGIH 2023

**USA - ACGIH - Biological Exposure Indices**

<table>
<thead>
<tr>
<th>Local name</th>
<th>METHANOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI (BLV)</td>
<td>15 mg/l</td>
</tr>
<tr>
<td></td>
<td>(Medium: urine - Time: end of shift - Parameter: Methanol (background, nonspecific))</td>
</tr>
</tbody>
</table>

**Regulatory reference**

ACGIH 2023

**USA - OSHA - Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Local name</th>
<th>Methyl alcohol</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL (TWA) [1]</td>
<td>260 mg/m³</td>
</tr>
<tr>
<td>OSHA PEL (TWA) [2]</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

**Regulatory reference (US-OSHA)**

OSHA Annotated Table Z-1

**USA - IDLH - Occupational Exposure Limits**

| IDLH [ppm] | 6000 ppm |

**USA - NIOSH - Occupational Exposure Limits**

| NIOSH REL (TWA) | 260 mg/m³ |
| NIOSH REL TWA [ppm] | 200 ppm |
| NIOSH REL (STEL) | 325 mg/m³ |
| NIOSH REL STEL [ppm] | 250 ppm |
TRIS(3-TRIMETHOXYSILYLPROPYL)ISOCYANURATE, tech
Safety Data Sheet

Methanol (67-56-1)

| US-NIOSH chemical category | Potential for dermal absorption |

8.2. Appropriate engineering controls

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

8.3. Individual protection measures/Personal protective equipment

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 - amine gas (brown cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | Liquid |
| Appearance | Clear liquid. Viscous. |
| Molecular mass | 615.86 g/mol |
| Color | Straw. |
| Odor | No data available |
| Odor threshold | No data available |
| pH | No data available |
| Relative evaporation rate (butyl acetate=1) | No data available |
| Melting point | No data available |
| Freezing point | < 0 °C |
| Boiling point | > 250 °C @ 0.1 mm Hg |
| Flash point | 102 °C |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Flammability (solid, gas) | No data available |
| Vapor pressure | < 0.1 mm Hg @ 25°C |
| Relative vapor density at 20°C | > 1 |
| Relative density | 1.17 |
| Solubility | Reacts with water. |
| Partition coefficient n-octanol/water (Log Pow) | No data available |
| Partition coefficient n-octanol/water (Log Kow) | No data available |
| Viscosity, kinematic | 150 – 350 cSt |
| 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 methanol.

10.4. Conditions to avoid
Heat. Open flame. Sparks.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Methanol. Organic acid vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

TRIS(3-TRIMETHOXYSYILPROPYL)ISOCYANURATE, tech (26115-70-8)
LD50 oral rat 9280 mg/kg
ATE US (oral) 1474.747 mg/kg body weight

1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]- (26115-70-8)
LD50 oral rat 1460 µl/kg

Methanol (67-56-1)
LD50 oral rat 100 mg/kg Source: National Institute of Environmental Research NCIS
LD50 dermal rabbit 300 mg/kg Source: ECHA
LC50 Inhalation - Rat [ppm] 22500 ppm (Exposure time: 8 h)

Skin corrosion/irritation : Causes skin irritation.
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
STOT-single exposure : May cause respiratory irritation.
STOT-repeated exposure : Not classified

1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]- (26115-70-8)
NOAEL (oral, rat, 90 days) ≈ 300 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Aspiration hazard : Not classified
TRIS(3-TRIMETHOXYSILYLPROPYL)ISOCYANURATE, tech
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Symptoms/effects after skin contact: Causes skin irritation. May cause sensitization by skin contact.
Symptoms/effects after eye contact: May be harmful if swallowed. Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness.
Symptoms/effects after ingestion: May be harmful if swallowed. Oral toxicity is associated with methanol, the solvent and a hydrolysis product which causes nausea, vomiting, headache, visual effects including blindness.
Chronic symptoms: On contact with water this compound liberates methanol which is known to have a chronic effect on the central nervous system. Methanol may effect the central nervous system resulting in persistent or recurring headaches or impaired vision.

SECTION 12: Ecological information

12.1. Toxicity

1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]-(26115-70-8)

<table>
<thead>
<tr>
<th>LC50</th>
<th>Test organisms (species)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish [1]</td>
<td>&gt; 100 mg/l</td>
<td>Test organisms (species): not specified</td>
</tr>
<tr>
<td>EC50</td>
<td>Crustacea [1]</td>
<td>&gt; 100 mg/l</td>
</tr>
</tbody>
</table>

Methanol (67-56-1)

<table>
<thead>
<tr>
<th>LC50</th>
<th>Test organisms (species)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish [1]</td>
<td>28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
<td></td>
</tr>
<tr>
<td>Fish [2]</td>
<td>&gt; 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
<td></td>
</tr>
<tr>
<td>EC50</td>
<td>Algae [1]</td>
<td>22000 mg/l</td>
</tr>
</tbody>
</table>

NOEC (chronic) 208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish 446.7 mg/l Test organisms (species): Pimephales promelas Duration: '28 d'

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]-(26115-70-8)

Partition coefficient n-octanol/water (Log Pow) 2.4 Source: ECHA

Methanol (67-56-1)

BCF - Fish [1] < 10
Partition coefficient n-octanol/water (Log Pow) -0.77

12.4. Mobility in soil

Methanol (67-56-1)

Mobility in soil 2.75 Source: HSDB

12.5. Other adverse effects

Other adverse effects: This substance may be hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations: May be incinerated. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility..

Ecology - waste materials: Avoid release to the environment.
**SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

<table>
<thead>
<tr>
<th></th>
<th>DOT</th>
<th>TDG</th>
<th>IMDG</th>
<th>IATA</th>
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<td><strong>14.1. UN number</strong></td>
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<td>Not regulated for transport</td>
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<td><strong>14.2. Proper Shipping Name</strong></td>
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<tr>
<td><strong>14.3. Transport hazard class(es)</strong></td>
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<tr>
<td>Not applicable</td>
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<td><strong>14.4. Packing group</strong></td>
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<tr>
<td>Not applicable</td>
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<td><strong>14.5. Environmental hazards</strong></td>
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<td>Dangerous for the environment: No</td>
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<td>Dangerous for the environment: No</td>
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<td>Dangerous for the environment: No</td>
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</tr>
<tr>
<td>No supplementary information available</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**14.6. Special precautions for user**

**DOT**
No data available

**TDG**
No data available

**IMDG**
No data available

**IATA**
No data available

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

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**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

Commercial status of components according to the United States Environmental Protection Agency’s Toxic Substances Control Act (TSCA):

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No.</th>
<th>Listing</th>
<th>Commercial status</th>
<th>Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]-</td>
<td>26115-70-8</td>
<td>Present</td>
<td>Active</td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>Present</td>
<td>Active</td>
<td></td>
</tr>
</tbody>
</table>
**TRIS(3-TRIMETHOXYSILYLPROPYL)ISOXYANURATE, tech**

Safety Data Sheet

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### Methanol (67-56-1)

Subject to reporting requirements of United States SARA Section 313
- Listed on EPA Hazardous Air Pollutant (HAPS)

- **CERCLA RQ**: 5000 lb

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### 15.2. International regulations

#### CANADA

1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]- (26115-70-8)
- Listed on the Canadian DSL (Domestic Substances List)

---

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

- Listed on the Canadian DSL (Domestic Substances List)

---

#### EU-Regulations

1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]- (26115-70-8)
- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

---

### Methanol (67-56-1)

- Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

---

#### National regulations

1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-(trimethoxysilyl)propyl]- (26115-70-8)
- Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
- Listed on the Japanese ISHL (Industrial Safety and Health Law)
- Listed on KECL/KECI (Korean Existing Chemicals Inventory)
- Listed on NZIoC (New Zealand Inventory of Chemicals)
- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

---

### Methanol (67-56-1)

- Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
- Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
- Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
- Listed on KECL/KECI (Korean Existing Chemicals Inventory)
- 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 INSQ (Mexican National Inventory of Chemical Substances)
- Listed on CICR (Turkish Inventory and Control of Chemicals)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)
- Listed on TECI (Thailand Existing Chemicals Inventory)
- Listed on the NCI (Vietnam - National Chemical Inventory)

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### 15.3. US State regulations

**WARNING:**

This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Safety Data Sheet

Methanol (67-56-1)

<table>
<thead>
<tr>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>U.S. - California - Proposition 65 - Developmental Toxicity</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</th>
<th>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</th>
<th>No significant risk level (NSRL)</th>
<th>Maximum allowable dose level (MADL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td></td>
<td>47000 µg/day (inhalation); 23,000 µg/day (oral)</td>
</tr>
</tbody>
</table>

Methanol (67-56-1)

<table>
<thead>
<tr>
<th>U.S. - Massachusetts - Right To Know List</th>
<th>U.S. - New Jersey - Right to Know Hazardous Substance List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List</th>
<th>U.S. - Pennsylvania - RTK (Right to Know) List</th>
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<tbody>
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</tbody>
</table>

SECTION 16: Other information

Full text of H-phrases:

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H370</td>
<td>Causes damage to organs</td>
</tr>
</tbody>
</table>

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; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor.

Hazard Rating

Health: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Prepared by safety and environmental affairs.

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