# SODIUM TRIMETHYLSILANOLATE, 96%

## Safety Data Sheet

### Date of issue: 03/28/2016

**Version:** 1.0

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## SECTION 1: Identification

### 1.1. Identification

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product name</strong></td>
<td>SODIUM TRIMETHYLSILANOLATE, 96%</td>
</tr>
<tr>
<td><strong>Product code</strong></td>
<td>SIS6988.0</td>
</tr>
<tr>
<td><strong>Product form</strong></td>
<td>Substance</td>
</tr>
<tr>
<td><strong>Physical state</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>Formula</strong></td>
<td>C₃H₉NaOSi</td>
</tr>
<tr>
<td><strong>Synonyms</strong></td>
<td>SODIUM TRIMETHYLSILOXIDE; TRIMEHYLSILANOL, SODIUM SALT</td>
</tr>
<tr>
<td><strong>Chemical family</strong></td>
<td>ORGANOSILANE</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)

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## SECTION 2: Hazard(s) Identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

- Skin corrosion/irritation Category 1B: H314 - Causes severe skin burns and eye damage
- Serious eye damage/eye irritation Category 1: H318 - Causes serious eye damage
- Specific target organ toxicity (single exposure) Category 3: 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):** ![hazard pictogram]
- **Signal word (GHS US):** Danger
- **Hazard statements (GHS US):**  
  - H314 - Causes severe skin burns and eye damage  
  - H335 - May cause respiratory irritation

- **Precautionary statements (GHS US):**  
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
  - P560 - Do not breathe dust, mist.  
  - P264 - Wash hands thoroughly after handling.  
  - P271 - Use only outdoors or in a well-ventilated area.  
  - P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.  
  - P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower.  
  - P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
  - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
  - P310 - Immediately call a doctor.  
  - P321 - Specific treatment (see first aid instructions on this label).  
  - P363 - Wash contaminated clothing 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

**Substance type**: Multi-constituent  
**Name**: SODIUM TRIMETHYLSILANOLATE, 96%  
**CAS-No.**: 18027-10-6

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium trimethylsilanolate</td>
<td>(CAS-No.) 18027-10-6</td>
<td>95 - 100</td>
<td>Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335</td>
</tr>
<tr>
<td>Hexamethyldisiloxane</td>
<td>(CAS-No.) 107-46-0</td>
<td>0 - 5</td>
<td>Flam. Liq. 2, H225 Aquatic Acute 2, H401 Aquatic Chronic 2, H411</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. Get medical advice/attention.

**First-aid measures after skin contact**: Wash with plenty of soap and water. Get immediate medical advice/attention.

**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 immediate medical advice/attention.

**First-aid measures after ingestion**: Never give anything by mouth to an unconscious person. Give a demulscent such as milk, olive oil, or margarine in small amounts, up to two or three tablespoons. Get medical advice/attention.

### 4.2. Most important symptoms and effects (acute and delayed)

**Symptoms/effects**: Causes severe skin burns and eye damage.

**Symptoms/effects after inhalation**: May cause respiratory irritation. Inhalation will cause sneezing, irritation and burns.

**Symptoms/effects after skin contact**: Causes (severe) skin burns. If skin and air are dry, powder on skin may not cause irritation or burns. Worker will notice a slippery feeling on washing. However, if moisture is present, the powder can cause severe burns.

**Symptoms/effects after eye contact**: Causes serious eye damage.

**Symptoms/effects after ingestion**: May be harmful if swallowed.

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

No additional information available

**SECTION 5: Fire-fighting measures**

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

**Suitable extinguishing media**: Foam. Carbon dioxide. Dry chemical.

**Unsuitable extinguishing media**: Water spray.

### 5.2. Specific hazards arising from the chemical

**Fire hazard**: Combustible solid. Irritating fumes and caustic 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**: Avoid water spray as volatile organics will be generated. Exercise caution when fighting any chemical fire.

**Protection during firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid contact with skin and eyes. Do not breathe dust.

**SECTION 6: Accidental release measures**

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

#### 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".
6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if product 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
: Ventilate area. Eliminate ignition sources. 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
: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Use only outdoors or in a well-ventilated area.
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
Storage conditions
: Keep container tightly closed. Store under dry nitrogen or argon in sealed containers. Store locked up.
Incompatible materials
Storage area
: Store in a well-ventilated place. Store away from heat.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
No additional information available

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 or face shield. Contact lenses should not be worn

Skin and body protection:
Wear suitable protective clothing. Long-sleeved fire-resistant lab uniform or coverall is recommended.

Respiratory protection:
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties
Physical state
: Solid
Appearance
: Solid
Molecular mass
: 112.18 g/mol
Color
: Off white to tan.
Odor
: Slight.
Odor threshold
: No data available
Refractive index
: No data available
pH
: No data available
Relative evaporation rate (butyl acetate=1)
: No data available
Melting point
: 147 - 150 °C degrades
Freezing point
: No data available
### SODIUM TRIMETHYLSILANOLATE, 96%

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**Boiling point**: No data available  
**Flash point**: > 65 °C  
**Auto-ignition temperature**: No data available  
**Decomposition temperature**: No data available  
**Flammability (solid, gas)**: Combustible solid  
**Vapor pressure**: No data available  
**Relative vapor density at 20 °C**: No data available  
**Relative density**: No data available  
**Solubility**: Insoluble in water. Reacts 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 under nitrogen or argon in sealed containers.

#### 10.3. Possibility of hazardous reactions

Material decomposes slowly in contact with moist air and rapidly in contact with water, possibly igniting.

#### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

#### 10.5. Incompatible materials


#### 10.6. Hazardous decomposition products

Caustic organic vapors. Hexamethyldisiloxane. Sodium hydroxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**: Not classified

**Hexamethyldisiloxane (107-46-0)**

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 inhalation rat (ppm)</td>
<td>15956 ppm/4h</td>
</tr>
<tr>
<td>LDLo oral guinea pig</td>
<td>32500 mg/kg</td>
</tr>
<tr>
<td>ATE US (gases)</td>
<td>15956 ppmV/4h</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**: Causes severe skin burns and eye damage.  
**Serious eye damage/irritation**: Causes serious eye damage.  
**Respiratory or skin sensitization**: Not classified  
**Germ cell mutagenicity**: Not classified  
**Carcinogenicity**: Not classified  
**Reproductive toxicity**: Not classified  
**Specific target organ toxicity – single exposure**: May cause respiratory irritation.

**Specific target organ toxicity – repeated exposure**: Not classified

**Aspiration hazard**: Not classified  
**Symptoms/effects after inhalation**: May cause respiratory irritation. Inhalation will cause sneezing, irritation and burns.  
**Symptoms/effects after skin contact**: Causes (severe) skin burns. If skin and air are dry, powder on skin may not cause irritation or burns. Worker will notice a slippery feeling on washing. However, if moisture is present, the powder can cause severe burns.

**Symptoms/effects after eye contact**: Causes serious eye damage.
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Symptoms/effects after ingestion: May be harmful if swallowed.
Reason for classification: Expert judgment

SECTION 12: Ecological information
12.1. Toxicity

Hexamethyldisiloxane (107-46-0)
LC50 fish 1: 3.02 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

12.2. Persistence and degradability

Hexamethyldisiloxane (107-46-0)
Persistance and degradability: May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Hexamethyldisiloxane (107-46-0)
BCF fish 1: 1300
Log Pow: 4.2

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 the ozone layer: No additional information available

SECTION 13: Disposal considerations
13.1. Disposal methods

Sewage disposal recommendations: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations: 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
14.1. UN number

UN-No.(DOT): 3263
DOT NA no.: UN3263

14.2. UN proper shipping name

Transport document description: UN3263 Corrosive solid, basic, organic, n.o.s. (SODIUM TRIMETHYLSILANOLATE), 8, III
Proper Shipping Name (DOT): Corrosive solid, basic, organic, n.o.s. (SODIUM TRIMETHYLSILANOLATE)
Class (DOT): 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT): III - Minor Danger
Hazard labels (DOT): 8 - Corrosive

DOT Packaging Non Bulk (49 CFR 173.xxx): 213
DOT Packaging Bulk (49 CFR 173.xxx): 240
DOT Packaging Exceptions (49 CFR 173.xxx): 154
DOT Symbols: G - Identifies PSN requiring a technical name

14.3. Additional information

Emergency Response Guide (ERG) Number: 154
Other information: No supplementary information available.

Transport by sea

DOT Vessel Stowage Location: A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other: 52 - Stow “separated from” acids
Air transport
DOT Quantity Limitations Passenger aircraft/rail : 25 kg
(49 CFR 173.27)
DOT Quantity Limitations Cargo aircraft only (49 : 100 kg
CFR 175.75)

SECTION 15: Regulatory information
15.1. US Federal regulations
Hexamethyldisiloxane (107-46-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Sodium trimethylsilanolate (18027-10-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations
CANADA
Hexamethyldisiloxane (107-46-0)
Listed on the Canadian DSL (Domestic Substances List)
Sodium trimethylsilanolate (18027-10-6)
Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations
Hexamethyldisiloxane (107-46-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Sodium trimethylsilanolate (18027-10-6)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations
Hexamethyldisiloxane (107-46-0)
Listed on the AICS (Australian Inventory of Chemical Substances)
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 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 INSC (Mexican National Inventory of Chemical Substances)
Listed on CICR (Turkish Inventory and Control of Chemicals)
Sodium trimethylsilanolate (18027-10-6)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

15.3. US State regulations
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information
Full text of H-phrases:

| H225 | Highly flammable liquid and vapor |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H335 | May cause respiratory irritation |
| H401 | Toxic to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |

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; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor.
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Hazard Rating

Health: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given.

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 III B)

Physical: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Prepared by safety and environmental affairs.

Date of issue: 03/28/2016 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

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

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