# SECTION 1: Identification of the substance/mixture and of the company/undertaking

<table>
<thead>
<tr>
<th>1.1.</th>
<th>Product identifier</th>
</tr>
</thead>
<tbody>
<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>Substance name</strong></td>
<td>POTASSIUM TRIMETHYLSILANOLATE, 95%</td>
</tr>
<tr>
<td><strong>Product code</strong></td>
<td>SIP6901.0</td>
</tr>
<tr>
<td><strong>Formula</strong></td>
<td>C₃H₉KOSi</td>
</tr>
<tr>
<td><strong>Synonyms</strong></td>
<td>POTASSIUM TRIMETHYLSILOXIDE; TRIMETHYLSILANOL, POTASSIUM SALT</td>
</tr>
<tr>
<td><strong>Chemical family</strong></td>
<td>ORGANOSILANE</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Use of the substance/mixture</th>
<th>Chemical intermediate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For research and industrial use only</td>
</tr>
</tbody>
</table>

## 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 - 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 Corr.**: 1B (H314)
- **Eye Dam.**: 1 (H318)
- **STOT SE**: 3 (H335)

**Full text of H-phrases**: see section 16

## 2.2. Label elements

### GHS-US labeling

- **Hazard pictograms (GHS-US)**: ![GHS05](image1) ![GHS07](image2)

- **Signal word (GHS-US)**: Danger

- **Hazard statements (GHS-US)**:  
  - H314 - Causes severe skin burns and eye damage  
  - H318 - Causes serious eye damage  
  - H335 - May cause respiratory irritation

- **Precautionary statements (GHS-US)**:  
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection  
  - P260 - Do not breathe dust  
  - 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  
  - 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. Other hazards

**No additional information available**
POTASSIUM TRIMETHYLSILANOLATE, 95%
Safety Data Sheet

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Substance type: Multi-constituent
Name: POTASSIUM TRIMETHYLSILANOLATE, 95%
CAS No: 10519-96-7
EC no: 234-062-7

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium trimethylsilanolate</td>
<td>(CAS No) 10519-96-7</td>
<td>&gt; 92</td>
<td>Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335</td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>(CAS No) 1310-58-3</td>
<td>&lt; 5</td>
<td>Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314 Eye Dam. 1, H318</td>
</tr>
<tr>
<td>Hexamethyldisiloxane</td>
<td>(CAS No) 107-46-0</td>
<td>&lt; 5</td>
<td>Flam. Liq. 2, H225 Aquatic Acute 2, H401 Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

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. 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 demulcent 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, both acute and delayed
Symptoms/injuries: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation: May cause respiratory irritation. Inhalation will cause sneezing, irritation and burns.
Symptoms/injuries 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/injuries after eye contact: Causes serious eye damage.
Symptoms/injuries after ingestion: May be harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media
Unsuitable extinguishing media: Water.

5.2. Special hazards arising from the substance or mixture
Fire hazard: Combustible solid. Irritating fumes and caustic vapors may develop when material is exposed to elevated temperatures or open flame.

5.3. Advice for firefighters
Firefighting instructions: 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
General measures: Remove ignition sources. Use special care to avoid static electric charges.
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 product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Ventilate area. Eliminate ignition sources. 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
Precautions for safe handling: Avoid contact with skin and eyes. Do not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to dust. Use only non-sparking tools.
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
Technical measures: Ground/bond container and receiving equipment.
Storage conditions: Keep container tightly closed. Store under dry nitrogen or argon in sealed containers.
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
Potassium hydroxide (1310-58-3)
USA ACGIH ACGIH Ceiling (mg/m³) 2 mg/m³
USA NIOSH NIOSH REL (ceiling) (mg/m³) 2 mg/m³

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 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: 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: 128.29 g/mol
Color: White.
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: 134 - 138 °C degrades
Freezing point: No data available
Boiling point: No data available
Flash point: > 65 °C
POTASSIUM TRIMETHYLSILANOLATE, 95%
Safety Data Sheet

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
Explosive 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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

Hexamethyldisiloxane (107-46-0)

LC50 inhalation rat (ppm) 15956 ppm/4h
LDLo oral guinea pig 32500 mg/kg
ATE US (gases) 15956.000 ppmV/4h

Potassium hydroxide (1310-58-3)

LD50 oral rat 284 mg/kg
ATE US (oral) 284.000 mg/kg body weight

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/injuries after inhalation: May cause respiratory irritation. Inhalation will cause sneezing, irritation and burns.
Symptoms/injuries 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/injuries after eye contact: Causes serious eye damage.
Symptoms/injuries after ingestion : May be harmful if swallowed.
Reason for classification : Expert judgment

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50 fish 1</th>
<th>Exposure time:</th>
<th>Species:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethyldisiloxane (107-46-0)</td>
<td>3.02 mg/l</td>
<td>96 h</td>
<td>Oncorhynchus mykiss [flow-through]</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Compound</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethyldisiloxane (107-46-0)</td>
<td>May cause long-term adverse effects in the environment.</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Compound</th>
<th>BCF fish 1</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethyldisiloxane (107-46-0)</td>
<td>1300</td>
<td>4.2</td>
</tr>
<tr>
<td>Potassium hydroxide (1310-58-3)</td>
<td></td>
<td>0.65</td>
</tr>
</tbody>
</table>

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 treatment methods : Treat quantities of 1000 grams or less by careful addition of dry isopropanol under controlled conditions in an exhausted area. Solution will be caustic. The solution can be incinerated.
Waste 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

Proper Shipping Name (DOT) : Corrosive solid, basic, organic, n.o.s. (POTASSIUM TRIMETHYLSILANOLATE)
Transport hazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT) : 8 - Corrosive

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

14.3. Additional information

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
SECTION 15: Regulatory information

15.1. US Federal regulations

| Potassium trimethylsilanolate (10519-96-7) | Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| Hexamethyldisiloxane (107-46-0) | Listed on the United States TSCA (Toxic Substances Control Act) inventory |
| Potassium hydroxide (1310-58-3) | Listed on the United States TSCA (Toxic Substances Control Act) inventory |

15.2. International regulations

| Potassium trimethylsilanolate (10519-96-7) | Listed on the Canadian NDSL (Non-Domestic Substances List) |
| Hexamethyldisiloxane (107-46-0) | Listed on the AICS (Australian Inventory of Chemical Substances) |
| Potassium hydroxide (1310-58-3) | Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

15.3. US State regulations

| POTASSIUM TRIMETHYLSILANOLATE, 95% (10519-96-7) | No |
| 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 |
| Potassium trimethylsilanolate (10519-96-7) | No significance risk level (NSRL) |
| 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 |
| Hexamethyldisiloxane (107-46-0) | No significance risk level (NSRL) |
| 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 |

Air transport

DOT Quantity Limitations Passenger aircraft/rail: 25 kg
(49 CFR 173.27)
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 100 kg
POTASSIUM TRIMETHYLSILANOLATE, 95%
Safety Data Sheet

Potassium hydroxide (1310-58-3)

<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 significance risk level (NSRL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

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 (Oral) Acute toxicity (oral) Category 3
- Aquatic Acute 2 Hazardous to the aquatic environment - Acute Hazard Category 2
- Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2
- Eye Dam. 1 Serious eye damage/eye irritation Category 1
- Flam. Liq. 2 Flammable liquids Category 2
- Skin Corr. 1A Skin corrosion/irritation Category 1A
- Skin Corr. 1B Skin corrosion/irritation Category 1B
- STOT SE 3 Specific target organ toxicity (single exposure) Category 3
- H225 Highly flammable liquid and vapor
- H301 Toxic if swallowed
- 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

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: 04/09/2015  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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