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

1.1. Product identifier

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

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

1.2.1. Relevant identified uses

Use of the substance/mixture: Chemical intermediate

1.2.2. Uses advised against

No additional information available

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

GELEST INC.
Fritz-Klatte-Strasse 8
65933 Frankfurt
Germany
T +49 (0) 69 3535106-500 - F +49 (0) 69 3535106-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelestde.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 according to Regulation (EC) No. 1272/2008 [CLP]

- Skin corrosion/irritation, Category 1B: H314
- Serious eye damage/eye irritation, Category 1: H318
- Specific target organ toxicity — Single exposure, Category 3: H335
- Respiratory tract irritation

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

- Hazard pictograms (CLP): GHS05, GHS07
- Signal word (CLP): Danger
- Hazard statements (CLP): H314 - Causes severe skin burns and eye damage.
  H335 - May cause respiratory irritation.
SODIUM TRIMETHYLSILANOLATE, 96%
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Precautionary statements (CLP):
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P260 - Do not breathe dust, mist.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P310 - Immediately call a POISON CENTER or doctor/physician.
P501 - Dispose of contents/container to licensed waste disposal facility.

2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-constituent</td>
<td>SODIUM TRIMETHYLSILANOLATE, 96%</td>
<td>18027-10-6</td>
<td>241-939-8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium trimethylsilanolate</td>
<td>(CAS-No.) 18027-10-6 (EC-No.) 241-939-8</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 (EC-No.) 203-492-7</td>
<td>0 - 5</td>
<td>Flam. Liq. 2, H225, Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

Full text of 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 person to fresh air and keep comfortable for breathing. Get medical advice/attention.

First-aid measures after skin contact:
Wash with plenty of 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, both 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. 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:
Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media:
Water spray.

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: 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.


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 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Solid</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>112.18 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>Off white to tan</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Refractive index</td>
<td>No additional information available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>147 - 150 °C degrades</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 65 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Combustible solid</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water. Reacts with water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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

Hexamethyldisiloxane (107-46-0)

<table>
<thead>
<tr>
<th>Effect</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 CLP (gases)</td>
<td>15956 ppmv/4h</td>
</tr>
</tbody>
</table>
SODIUM TRIMETHYLSILANOLATE, 96%
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Skin corrosion/irritation: Causes severe skin burns and eye damage.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitisation: 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
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.
Symptoms/effects after ingestion: May be harmful if swallowed.
Reason for classification: Expert judgment

SECTION 12: Ecological information

12.1. Toxicity
Acute aquatic toxicity: Not classified.
Chronic aquatic toxicity: Not classified.

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)
Persistence 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. Results of PBT and vPvB assessment
No additional information available

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

SECTION 13: Disposal considerations

13.1. Waste treatment 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
In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR): 3263
UN-No. (IMDG): 3263
UN-No. (IATA): 3263
UN-No. (ADN): 3263
UN-No. (RID): 3263

14.2. UN proper shipping name
Proper Shipping Name (ADR): CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.
SODIUM TRIMETHYLSILANOLATE, 96%
Safety Data Sheet

Proper Shipping Name (IMDG) : CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.
Proper Shipping Name (IATA) : Corrosive solid, basic, organic, n.o.s.
Proper Shipping Name (ADN) : CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.
Proper Shipping Name (RID) : CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.
Transport document description (ADR) : UN 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (SODIUM TRIMETHYLSILANOLATE), 8, III, (E)
Transport document description (IMDG) : UN 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (SODIUM TRIMETHYLSILANOLATE), 8, III
Transport document description (IATA) : UN 3263 Corrosive solid, basic, organic, n.o.s. (SODIUM TRIMETHYLSILANOLATE), 8, III
Transport document description (ADN) : UN 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (SODIUM TRIMETHYLSILANOLATE), 8, III
Transport document description (RID) : UN 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (SODIUM TRIMETHYLSILANOLATE), 8, III

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8

IMDG
Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8

IATA
Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8

ADN
Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8

RID
Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8
14.4. Packing group

- Packing group (ADR): III
- Packing group (IMDG): III
- Packing group (IATA): III
- Packing group (ADN): III
- Packing group (RID): III

14.5. Environmental hazards

- Dangerous for the environment: No
- Marine pollutant: No
- Other information: No supplementary information available

14.6. Special precautions for user

- Overland transport
  - Classification code (ADR): C8
  - Special provisions (ADR): 274
  - Limited quantities (ADR): 5kg
  - Excepted quantities (ADR): E1
  - Packing instructions (ADR): P002, IBC08, LP02, R001
  - Mixed packing provisions (ADR): MP10
  - Portable tank and bulk container instructions (ADR): T1
  - Portable tank and bulk container special provisions (ADR): TP33
  - Tank code (ADR): SGAV, L4BN
  - Vehicle for tank carriage: AT
  - Transport category (ADR): 3
  - Special provisions for carriage - Bulk (ADR): VC1, VC2, AP7
  - Hazard identification number (Kemler No.): 80
  - Orange plates: 80
  - EAC code: 2X
  - Tunnel restriction code (ADR): E
  - Stowage category (IMDG): A
  - Segregation (IMDG): SG35
  - Properties and observations (IMDG): Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.

- Transport by sea
  - Special provisions (IMDG): 223, 274
  - Limited quantities (IMDG): 5 kg
  - Excepted quantities (IMDG): E1
  - IBC packing instructions (IMDG): IBC08
  - IBC special provisions (IMDG): B3
  - Tank instructions (IMDG): T1
  - Tank special provisions (IMDG): TP33
  - EmS-No. (Fire): F-A
  - EmS-No. (Spillage): S-B
  - Stowage category (IMDG): A
  - Segregation (IMDG): SG35
  - Properties and observations (IMDG): Reacts violently with acids. Causes burns to skin, eyes and mucous membranes.

- Air transport
  - PCA Excepted quantities (IATA): E1
  - PCA Limited quantities (IATA): Y845
  - PCA limited quantity max net quantity (IATA): 5kg
SODIUM TRIMETHYLSILANOLATE, 96%  
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PCA packing instructions (IATA) : 860
PCA max net quantity (IATA) : 25kg
CAO packing instructions (IATA) : 864
CAO max net quantity (IATA) : 100kg
Special provisions (IATA) : A3
ERG code (IATA) : 8L

- Inland waterway transport
  Classification code (ADN) : C8
  Special provisions (ADN) : 274
  Limited quantities (ADN) : 5 kg
  Excepted quantities (ADN) : E1
  Equipment required (ADN) : PP, EP
  Number of blue cones/lights (ADN) : 0

- Rail transport
  Classification code (RID) : C8
  Special provisions (RID) : 274
  Limited quantities (RID) : 5kg
  Excepted quantities (RID) : E1
  Packing instructions (RID) : P002, IBC08, LP02, R001
  Special packing provisions (RID) : B3
  Mixed packing provisions (RID) : MP10
  Portable tank and bulk container instructions (RID) : T1
  Portable tank and bulk container special provisions (RID) : TP33
  Tank codes for RID tanks (RID) : SGAV, L4BN
  Transport category (RID) : 3
  Special provisions for carriage – Bulk (RID) : VC1, VC2, AP7
  Colis express (express parcels) (RID) : CE11
  Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
No REACH Annex XVII restrictions
SODIUM TRIMETHYLSILANOLATE, 96% is not on the REACH Candidate List
SODIUM TRIMETHYLSILANOLATE, 96% is not on the REACH Annex XIV List
SODIUM TRIMETHYLSILANOLATE, 96% is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

15.1.2. National regulations

Germany
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands
SZW-lijst van kankerverwekkende stoffen : The substance is not listed
SZW-lijst van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
SODIUM TRIMETHYLSILANOLATE, 96%
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NIET-limitatieve lijst van voor de voortplanting
giftige stoffen – Ontwikkeling
The substance is not listed

Denmark
Classification remarks
Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations
Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment
No additional information available

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

Other information: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

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. 1B: Skin corrosion/irritation, Category 1B
STOT SE 3: Specific target organ toxicity — Single exposure, Category 3. Respiratory tract irritation
H225: Highly flammable liquid and vapour.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.
H411: Toxic to aquatic life with long lasting effects.

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