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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form</td>
<td>Substance</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Substance name</td>
<td>THEXYLDIMETHYLCHLOROSILANE</td>
</tr>
<tr>
<td>Product code</td>
<td>SIT7906.0</td>
</tr>
<tr>
<td>Formula</td>
<td>C8H19ClSi</td>
</tr>
<tr>
<td>Synonyms</td>
<td>1-HEXYLDIMETHYLCHLOROSILANE; DIMETHYLTHEXYLCHLOROSILANE</td>
</tr>
<tr>
<td>Chemical family</td>
<td>ORGANOCHLOROSILANE</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]

<table>
<thead>
<tr>
<th>Category</th>
<th>H226</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids, Category 3</td>
<td></td>
</tr>
<tr>
<td>Skin corrosion/irritation, Category 1B</td>
<td>H314</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation, Category 1</td>
<td>H318</td>
</tr>
</tbody>
</table>

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): ❖ GHS02 ❖ GHS05

Signal word (CLP): Danger

Hazard statements (CLP): H226 - Flammable liquid and vapour.
                         H314 - Causes severe skin burns and eye damage.

SECTION 3: Composition/information on ingredients

3.1. Substances

<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>Thexyldimethylchlorosilane</td>
<td>(CAS-No.) 67373-56-2</td>
<td>95 - 100</td>
<td>Flam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318</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. 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 irritation to the respiratory tract.

Symptoms/effects after skin contact: Causes (severe) skin 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


Unsuitable extinguishing media: Water.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Flammable liquid and vapour. Irritating fumes of hydrogen chloride and organic acid vapors may develop when material is exposed to water or open flame.

Explosion hazard: May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

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 vapour and mist.
**THEXYLDIMETHYLCHLOROSILANE**  
Safety Data Sheet

### SECTION 6: Accidental release measures

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

<table>
<thead>
<tr>
<th>General measures</th>
<th>Remove ignition sources. Use special care to avoid static electric charges.</th>
</tr>
</thead>
</table>

6.1.1. **For non-emergency personnel**

<table>
<thead>
<tr>
<th>Emergency procedures</th>
<th>Evacuate unnecessary personnel.</th>
</tr>
</thead>
</table>

6.1.2. **For emergency responders**

<table>
<thead>
<tr>
<th>Protective equipment</th>
<th>Equip cleanup crew with proper protection.</th>
</tr>
</thead>
</table>

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**

<table>
<thead>
<tr>
<th>Methods for cleaning up</th>
<th>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.</th>
</tr>
</thead>
</table>

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**

<table>
<thead>
<tr>
<th>Additional hazards when processed</th>
<th>Handle empty containers with care because residual vapours are flammable.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Precautions for safe handling</th>
<th>Avoid all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in process area to prevent formation of vapour. Containers and transfer lines require grounding during use. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Hygiene measures</th>
<th>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.</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Technical measures</th>
<th>Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Storage conditions</th>
<th>Keep container tightly closed.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Incompatible materials</th>
<th>Alkalis. Oxidizing agent.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Storage area</th>
<th>Store in a well-ventilated place. Store away from heat.</th>
</tr>
</thead>
</table>

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

**Respiratory protection:**

NIOSH-certified combination organic vapor/acid gas (yellow cartridge) respirator.

### SECTION 9: Physical and chemical properties

9.1. **Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear liquid.</th>
</tr>
</thead>
</table>
Molecular mass : 178.78 g/mol
Colour : No data available
Odour : Acrid. Similar to hydrogen chloride.
Odour threshold : No data available
Refractive index : 1.449
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : 14 - 15 °C
Freezing point : No data available
Boiling point : 55 - 56 °C @ 10 mm Hg
Flash point : 51 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Flammable liquid and vapour.
Vapour pressure : No data available
Relative vapour density at 20 °C : > 1
Relative density : 0.911
% Volatiles : > 95 %
Solubility : Insoluble in 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
Oxidising 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 in sealed containers stored under a dry inert atmosphere.

10.3. Possibility of hazardous reactions
Reacts with water and moisture in air, liberating hydrogen chloride.

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

10.5. Incompatible materials
Alkalis. Oxidizing agent.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
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 : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
THEXYLDIMETHYLCHLOROSILANE
Safety Data Sheet

Symptoms/effects after inhalation: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact: Causes (severe) skin 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

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

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
Product/Packaging disposal recommendations: Incinerate. 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 vapours are flammable.
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) : 2985
UN-No. (IMDG) : 2985
UN-No. (IATA) : 2985
UN-No. (ADN) : 2985
UN-No. (RID) : 2985

14.2. UN proper shipping name
Proper Shipping Name (ADR) : CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG) : CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.
Proper Shipping Name (IATA) : Chlorosilanes, flammable, corrosive, n.o.s.
Proper Shipping Name (ADN) : CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.
Proper Shipping Name (RID) : CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.
Transport document description (ADR) : UN 2985 CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S. (THEXYLDIMETHYLCHLOROSILANE), 3 (8), II, (D/E)
Transport document description (IMDG) : UN 2985 CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S. (THEXYLDIMETHYLCHLOROSILANE), 3 (8), II
Transport document description (IATA) : UN 2985 Chlorosilanes, flammable, corrosive, n.o.s. (THEXYLDIMETHYLCHLOROSILANE), 3 (8), II
Transport document description (ADN) : UN 2985 CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S. (THEXYLDIMETHYLCHLOROSILANE), 3 (8), II
Transport document description (RID) : UN 2985 CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S. (THEXYLDIMETHYLCHLOROSILANE), 3 (8), II

14.3. Transport hazard class(es)
ADR
Transport hazard class(es) (ADR) : 3 (8)
<table>
<thead>
<tr>
<th>Danger labels (ADR)</th>
<th>: 3, 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMDG</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es) (IMDG)</td>
<td>: 3 (8)</td>
</tr>
<tr>
<td>Danger labels (IMDG)</td>
<td>: 3, 8</td>
</tr>
<tr>
<td>IATA</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es) (IATA)</td>
<td>: 3 (8)</td>
</tr>
<tr>
<td>Hazard labels (IATA)</td>
<td>: 3, 8</td>
</tr>
<tr>
<td>ADN</td>
<td></td>
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<tr>
<td>Transport hazard class(es) (ADN)</td>
<td>: 3 (8)</td>
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<tr>
<td>Danger labels (ADN)</td>
<td>: 3, 8</td>
</tr>
<tr>
<td>RID</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es) (RID)</td>
<td>: 3 (8)</td>
</tr>
<tr>
<td>Danger labels (RID)</td>
<td>: 3, 8</td>
</tr>
</tbody>
</table>

### 14.4. Packing group
- Packing group (ADR) : II
- Packing group (IMDG) : II
- Packing group (IATA) : II
- Packing group (ADN) : II
- Packing group (RID) : II

### 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) : FC
  Special provisions (ADR) : 548
  Limited quantities (ADR) : 0
  Excepted quantities (ADR) : E0
  Packing instructions (ADR) : P010
  Mixed packing provisions (ADR) : MP19
  Portable tank and bulk container instructions (ADR) : T14
  Portable tank and bulk container special provisions (ADR) : TP2, TP7, TP27
  Tank code (ADR) : L4BH
  Vehicle for tank carriage : FL
  Transport category (ADR) : 2
  Special provisions for carriage - Operation (ADR) : S2, S20
  Hazard identification number (Kemler No.) : X338
  Orange plates : 

  Tunnel restriction code (ADR) : D/E
  EAC code : 4WE
  APP code : A(fl)

- Transport by sea
  Limited quantities (IMDG) : 0
  Excepted quantities (IMDG) : E0
  Packing instructions (IMDG) : P010
  Tank instructions (IMDG) : T14
  Tank special provisions (IMDG) : TP2, TP7, TP13, TP27
  EmS-No. (Fire) : F-E
  EmS-No. (Spillage) : S-C
  Stowage category (IMDG) : B
  Stowage and handling (IMDG) : SW2
  Properties and observations (IMDG) : White or slightly yellowish deliquescent crystals or sticks. Soluble in water. Mixtures with combustible material are readily ignited and may burn fiercely. Mixtures with ammonium compounds or cyanides may explode. Harmful if swallowed.

- Air transport
  PCA Excepted quantities (IATA) : E0
  PCA Limited quantities (IATA) : Forbidden
  PCA limited quantity max net quantity (IATA) : Forbidden
  PCA packing instructions (IATA) : Forbidden
  PCA max net quantity (IATA) : Forbidden
  CAO packing instructions (IATA) : 377
  CAO max net quantity (IATA) : 5L
  ERG code (IATA) : 3C

- Inland waterway transport
  Classification code (ADN) : FC
  Special provisions (ADN) : 548
  Limited quantities (ADN) : 0
  Excepted quantities (ADN) : E0
  Equipment required (ADN) : PP, EP, EX, A
  Ventilation (ADN) : VE01
  Number of blue cones/lights (ADN) : 1

- Rail transport
  Classification code (RID) : FC
THEXYLDIMETHYLCHLOROSILANE
Safety Data Sheet

Special provisions (RID) : 548
Limited quantities (RID) : 0
Excepted quantities (RID) : E0
Packing instructions (RID) : P010
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T14
Portable tank and bulk container special provisions (RID) : TP2, TP7, TP27
Tank codes for RID tanks (RID) : L4BH
Transport category (RID) : 2
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
THEXYLDIMETHYLCHLOROSILANE is not on the REACH Candidate List
THEXYLDIMETHYLCHLOROSILANE is not on the REACH Annex XIV List
THEXYLDIMETHYLCHLOROSILANE 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.

% Volatiles : > 95 %

15.1.2. National regulations

Germany

Netherlands
SZW-lijt van kankerverwekkende stoffen : The substance is not listed
SZW-lijt 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
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark
Class for fire hazard : Class II-1
Store unit : 5 liter
Classification remarks : R10 <H226;H314>; 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:
THEXYLDIMETHYLCHLOROSILANE
Safety Data Sheet

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:

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td>Flam. Liq. 3</td>
<td>Flammable liquids, Category 3</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation, Category 1B</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
</tbody>
</table>

SDS EU (REACH Annex II) - Custom

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.

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