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

1.1. Product identifier

- **Product form**: Substance
- **Physical state**: Liquid
- **Substance name**: 3-CHLOROPROPYLTRICHLOROGERMANE
- **Product code**: GEC2400
- **Formula**: C₃H₆Cl₄Ge
- **Synonyms**: TRICHLORO(3-CHLOROPROPYL)GERMANE, (3-CHLOROPROPYL)GERMANIUM TRICHLORIDE
- **Chemical family**: ORGANOCHLOROGERMANE

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

2.2. Label elements

- **Labelling according to Regulation (EC) No. 1272/2008 [CLP]**
  - Hazard pictograms (CLP)
  - Signal word (CLP): Danger
  - Hazard statements (CLP): H314 - Causes severe skin burns and eye damage.
3-CHLOROPROPYLTRICHLOROGERMANE
Safety Data Sheet

Precautionary statements (CLP):
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P260 - Do not breathe vapours.
- P264 - Wash hands thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P501 - Dispose of contents/container to licensed waste disposal facility.
- P310 - Immediately call a POISON CENTER or doctor/physician.

EUH-statements:
- EUH210 - Safety data sheet available on request.

2.3. Other hazards
Other hazards not contributing to the classification:
Hydrogen chloride may be formed by reaction with water and moisture in air. The US OSHA PEL (TWA) for hydrogen chloride is 5 ppm.

SECTION 3: Composition/information on ingredients

### 3.1. Substances

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Monomer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>3-CHLOROPROPYLTRICHLOROGERMANE</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>19268-40-7</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>3-Chloropropyltrichlorogermane</td>
<td>(CAS-No.) 19268-40-7</td>
<td>95 - 100</td>
<td>Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335</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

<table>
<thead>
<tr>
<th>First-aid measures general</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>First-aid measures after inhalation</td>
<td>Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.</td>
</tr>
<tr>
<td>First-aid measures after skin contact</td>
<td>Wash with plenty of water/…. Get immediate medical advice/attention.</td>
</tr>
<tr>
<td>First-aid measures after eye contact</td>
<td>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.</td>
</tr>
<tr>
<td>First-aid measures after ingestion</td>
<td>Never give anything by mouth to an unconscious person. Get medical advice/attention.</td>
</tr>
</tbody>
</table>

#### 4.2. Most important symptoms and effects, both acute and delayed

<table>
<thead>
<tr>
<th>Symptoms/effects after inhalation</th>
<th>May cause respiratory irritation. Inhalation of large amounts is expected to cause necrosis of tracheal epithelium, bronchitis and interstitial pneumonia by analogy to animal tests for tetrachlorogermane.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptoms/effects after skin contact</td>
<td>Causes (severe) skin burns.</td>
</tr>
<tr>
<td>Symptoms/effects after eye contact</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Symptoms/effects after ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
</tbody>
</table>

#### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physician: Organochlorogermandes react with water to form hydrochloric acid, consequently treatment for acid burns may be considered.

SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>Water.</td>
</tr>
</tbody>
</table>

#### 5.2. Special hazards arising from the substance or mixture

<table>
<thead>
<tr>
<th>Fire hazard</th>
<th>Combustible liquid. Irritating fumes of hydrogen chloride and organic acid vapors may develop when material is exposed to water or open flame.</th>
</tr>
</thead>
</table>

#### 5.3. Advice for firefighters

<table>
<thead>
<tr>
<th>Firefighting instructions</th>
<th>Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.</th>
</tr>
</thead>
</table>
### 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.

### 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.

**For non-emergency personnel**
- **Protective equipment**: Wear protective equipment as described in Section 8.
- **Emergency procedures**: Evacuate unnecessary personnel.

**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 liquid 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**
Clean up any spills as soon as possible, using an absorbent material to collect it.

#### 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

**Additional hazards when processed**
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Precautions for safe handling**
Avoid all eye and skin contact and do not breathe vapour and mist. Ground/bond container and receiving equipment. 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

**Technical measures**
Proper grounding procedures to avoid static electricity should be followed.

**Storage conditions**
Keep container tightly closed. Keep in a cool place. Store locked up.

**Incompatible materials**
Moisture. Water.

**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

**Respiratory protection:**
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. 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

Physical state: Liquid
Appearance: Clear liquid.
Molecular mass: 256.48 g/mol
Colour: Colourless.
Odour: Acrid. Similar to hydrogen chloride.
Odour threshold: No data available
Refractive index: 1.507
pH: No data available
Relative evaporation rate (butylacetate=1): No data available
Melting point: No data available
Freezing point: No data available
Boiling point: 78 - 79 °C @ 8 mm Hg
Flash point: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Flammability (solid, gas): Combustible liquid
Vapour pressure: No data available
Relative vapour density at 20 °C: > 1
Relative density: 1.664
Solubility: 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
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.

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
Moisture. Water.

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
3-CHLOROPROPYLTRICHLOROGERMANE
Safety Data Sheet

Carcinogenicity: Not classified
None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

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 of large amounts is expected to cause necrosis of tracheal epithelium, bronchitis and interstitial pneumonia by analogy to animal tests for tetrachlorogermane.

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.

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
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): 1760
UN-No. (IMDG): 1760
UN-No. (IATA): 1760
UN-No. (ADN): 1760
UN-No. (RID): 1760

14.2. UN proper shipping name
Proper Shipping Name (ADR): CORROSIVE LIQUID, N.O.S.
Proper Shipping Name (IMDG): CORROSIVE LIQUID, N.O.S.
Proper Shipping Name (IATA): Corrosive liquid, n.o.s.
Proper Shipping Name (ADN): CORROSIVE LIQUID, N.O.S.
Proper Shipping Name (RID): CORROSIVE LIQUID, N.O.S.
Transport document description (ADR): UN 1760 CORROSIVE LIQUID, N.O.S. (3-CHLOROPROPYLTRICHLOROGERMANE), 8, III, (E)
Transport document description (IMDG): UN 1760 CORROSIVE LIQUID, N.O.S. (3-CHLOROPROPYLTRICHLOROGERMANE), 8, III
Transport document description (IATA): UN 1760 Corrosive liquid, n.o.s. (3-CHLOROPROPYLTRICHLOROGERMANE), 8, III
Transport document description (ADN): UN 1760 CORROSIVE LIQUID, N.O.S. (3-CHLOROPROPYLTRICHLOROGERMANE), 8, III
# 3-CHLOROPROPYLTRICHLOROGERMANE

## Safety Data Sheet

### Transport document description (RID)

| | UN 1760 CORROSIVE LIQUID, N.O.S. (3-CHLOROPROPYLTRICHLOROGERMANE), 8, III |

### 14.3. Transport hazard class(es)

#### ADR

<table>
<thead>
<tr>
<th>Transport hazard class(es) (ADR)</th>
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<tbody>
<tr>
<td>Danger labels (ADR)</td>
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#### IMDG

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<th>Transport hazard class(es) (IMDG)</th>
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<tr>
<td>Danger labels (IMDG)</td>
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#### IATA

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<tr>
<th>Transport hazard class(es) (IATA)</th>
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#### ADN

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<th>Transport hazard class(es) (ADN)</th>
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#### RID

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<tbody>
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### 14.4. Packing group

<table>
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<tr>
<th>Packing group (ADR)</th>
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<tbody>
<tr>
<td>Packing group (IMDG)</td>
<td>III</td>
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<tr>
<td>Packing group (IATA)</td>
<td>III</td>
</tr>
<tr>
<td>Packing group (ADN)</td>
<td>III</td>
</tr>
<tr>
<td>Packing group (RID)</td>
<td>III</td>
</tr>
</tbody>
</table>

### 14.5. Environmental hazards

| Dangerous for the environment | No |
| Marine pollutant | No |
### 3-CHLOROPROPYLTRICHLOROGERMANE

Safety Data Sheet

**Other information** : No supplementary information available

#### 14.6. Special precautions for user

<table>
<thead>
<tr>
<th><strong>- Overland transport</strong></th>
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<tbody>
<tr>
<td>Classification code (ADR)</td>
<td>C9</td>
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<tr>
<td>Special provisions (ADR)</td>
<td>274</td>
</tr>
<tr>
<td>Limited quantities (ADR)</td>
<td>5l</td>
</tr>
<tr>
<td>Excepted quantities (ADR)</td>
<td>E1</td>
</tr>
<tr>
<td>Packing instructions (ADR)</td>
<td>P001, IBC03, LP01, R001</td>
</tr>
<tr>
<td>Mixed packing provisions (ADR)</td>
<td>MP19</td>
</tr>
<tr>
<td>Portable tank and bulk container instructions (ADR)</td>
<td>T7</td>
</tr>
<tr>
<td>Tank code (ADR)</td>
<td>L4BN</td>
</tr>
<tr>
<td>Vehicle for tank carriage</td>
<td>AT</td>
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<tr>
<td>Transport category (ADR)</td>
<td>3</td>
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<tr>
<td>Special provisions for carriage - Packages (ADR)</td>
<td>V12</td>
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<tr>
<td>Hazard identification number (Kemler No.)</td>
<td>80</td>
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<tr>
<td>Orange plates</td>
<td></td>
</tr>
</tbody>
</table>

| **Tunnel restriction code (ADR)** | E |
| EAC code | 2X |
| APP code | B |

<table>
<thead>
<tr>
<th><strong>- Transport by sea</strong></th>
<th></th>
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<tbody>
<tr>
<td>Special provisions (IMDG)</td>
<td>223, 274</td>
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<tr>
<td>Packing instructions (IMDG)</td>
<td>P001, LP01</td>
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<td>IBC packing instructions (IMDG)</td>
<td>IBC03</td>
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<td>Tank instructions (IMDG)</td>
<td>T7</td>
</tr>
<tr>
<td>Tank special provisions (IMDG)</td>
<td>TP1, TP28</td>
</tr>
<tr>
<td>EmS-No. (Fire)</td>
<td>F-A</td>
</tr>
<tr>
<td>EmS-No. (Spillage)</td>
<td>S-B</td>
</tr>
<tr>
<td>Stowage category (IMDG)</td>
<td>A</td>
</tr>
<tr>
<td>Stowage and handling (IMDG)</td>
<td>SW2</td>
</tr>
<tr>
<td>Properties and observations (IMDG)</td>
<td>Causes burns to skin, eyes and mucous membranes.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>- Air transport</strong></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>PCA Excepted quantities (IATA)</td>
<td>E1</td>
</tr>
<tr>
<td>PCA Limited quantities (IATA)</td>
<td>Y841</td>
</tr>
<tr>
<td>PCA limited quantity max net quantity (IATA)</td>
<td>1L</td>
</tr>
<tr>
<td>PCA packing instructions (IATA)</td>
<td>852</td>
</tr>
<tr>
<td>PCA max net quantity (IATA)</td>
<td>5L</td>
</tr>
<tr>
<td>CAO packing instructions (IATA)</td>
<td>856</td>
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<tr>
<td>CAO max net quantity (IATA)</td>
<td>60L</td>
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<tr>
<td>Special provisions (IATA)</td>
<td>A3, A803</td>
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<tr>
<td>ERG code (IATA)</td>
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<table>
<thead>
<tr>
<th><strong>- Inland waterway transport</strong></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Classification code (ADN)</td>
<td>C9</td>
</tr>
<tr>
<td>Special provisions (ADN)</td>
<td>274</td>
</tr>
<tr>
<td>Limited quantities (ADN)</td>
<td>5 L</td>
</tr>
<tr>
<td>Excepted quantities (ADN)</td>
<td>E1</td>
</tr>
<tr>
<td>Carriage permitted (ADN)</td>
<td>T</td>
</tr>
<tr>
<td>Equipment required (ADN)</td>
<td>PP, EP</td>
</tr>
<tr>
<td>Number of blue cones/lights (ADN)</td>
<td>0</td>
</tr>
</tbody>
</table>
3-CHLOROPROPYLTRICHLOROGERMANE
Safety Data Sheet

- Rail transport
  Classification code (RID): C9
  Special provisions (RID): 274
  Excepted quantities (RID): E1
  Packing instructions (RID): P001, IBC03, LP01, R001
  Mixed packing provisions (RID): MP19
  Portable tank and bulk container instructions (RID): T7
  Portable tank and bulk container special provisions (RID): TP1, TP28
  Tank codes for RID tanks (RID): L4BN
  Transport category (RID): 3
  Special provisions for carriage – Packages (RID): W12
  Coils express (express parcels) (RID): CE8
  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
3-CHLOROPROPYLTRICHLOROGERMANE is not on the REACH Candidate List
3-CHLOROPROPYLTRICHLOROGERMANE is not on the REACH Annex XIV List
3-CHLOROPROPYLTRICHLOROGERMANE 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
NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling : The substance is not listed

Denmark
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
### 3-CHLOROPROPYLTRICHLOROGERMANE
Safety Data Sheet

Other information: Prepared by safety and environmental affairs.

<table>
<thead>
<tr>
<th>Full text of H- and EUH-statements:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye Dam.</strong> 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
</tr>
<tr>
<td><strong>Skin Corr. 1B</strong></td>
<td>Skin corrosion/irritation, Category 1B</td>
</tr>
<tr>
<td><strong>STOT SE 3</strong></td>
<td>Specific target organ toxicity — Single exposure, Category 3. Respiratory tract irritation</td>
</tr>
<tr>
<td><strong>H314</strong></td>
<td>Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td><strong>H318</strong></td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td><strong>H335</strong></td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td><strong>EUH210</strong></td>
<td>Safety data sheet available on request.</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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