

# ISOPROPYLDIMETHYLCHLOROSILANE

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
 Issue date: 9/23/2015 Revision date: 11/22/2023 Version: 2.1

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

#### 1.1. Product identifier

|                 |  |
|-----------------|--|
| Product form    | : Substance                            |
| Substance name  | : ISOPROPYLDIMETHYLCHLOROSILANE        |
| CAS-No.         | : 3634-56-8                            |
| Product code    | : SII6462.0                            |
| Formula         | : C <sub>5</sub> H <sub>13</sub> ClSi  |
| Synonyms        | : 1-DIMETHYLCHLOROSILYL-1-METHYLETHANE |
| Product group   | : Trade product                        |
| Chemical family | : ORGANOCHLOROSILANE                   |

#### 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](mailto:info@gelest.com) - [www.gelest.com](http://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](mailto:info@gelestde.com) - [www.gelest.com](http://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 according to Regulation (EC) No. 1272/2008 [CLP]

|  |      |
|--|------|
| Flammable liquids, Category 2                          | H225 |
| Skin corrosion/irritation, Category 1, Sub-Category 1B | H314 |
| Serious eye damage/eye irritation, Category 1          | H318 |
| Full text of H- and EUH-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)



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|                                |   |       |
|--------------------------------|---|-------|
|                                | GHS02   | GHS05 |
| Signal word (CLP)              | : Danger  |       |
| Hazard statements (CLP)        | : H225 - Highly flammable liquid and vapour.<br>H314 - Causes severe skin burns and eye damage.   |       |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.<br>P233 - Keep container tightly closed.<br>P240 - Ground and bond container and receiving equipment.<br>P241 - Use explosion-proof electrical/ventilating/lighting equipment.<br>P260 - Do not breathe vapours.<br>P264 - Wash hands thoroughly after handling. |       |
| EUH-statements                 | : EUH014 - Reacts violently with water.   |       |

### 2.3. Other hazards

Other hazards which do not result in 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.

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

|                |                                 |
|----------------|---------------------------------|
| Substance type | : Mono-constituent              |
| Name           | : ISOPROPYLDIMETHYLCHLOROSILANE |
| CAS-No.        | : 3634-56-8                     |

| Name                          | Product identifier | %        | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-------------------------------|--------------------|----------|---|
| Isopropyldimethylchlorosilane | CAS-No.: 3634-56-8 | 97 – 100 | Flam. Liq. 2, H225<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318   |

Full text of H- and EUH-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. IF exposed or concerned: Get medical advice/attention. |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.   |
| 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 if you feel unwell.   |

### 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.                   |

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### 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 : Alcohol-resistant foam. Carbon dioxide. Dry chemical. Use of high expansion foam (100:1) is recommended to cover flames.
- Unsuitable extinguishing media : Water.

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

- Fire hazard : Highly flammable liquid and vapour. Irritating fumes of hydrochloric acid 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 : Exercise caution when fighting any chemical fire. Use only dry media to extinguish flames. Water spray or fog should only be used to knock down hydrogen chloride vapors in areas downwind from the 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.

## SECTION 6: Accidental release measures

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

- General measures : Eliminate every possible source of ignition. Use special care to avoid static electric charges.

#### 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 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. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. 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. Provide good ventilation in process area to prevent formation of vapour. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.

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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 : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.  
Storage conditions : Keep container tightly closed. Keep in a cool place. Store locked up.  
Incompatible materials : Acids. alcohols. Oxidizing agent.  
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

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Provide local exhaust or general room ventilation.

#### 8.2.2. Personal protection 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.

##### 8.2.2.1. Eye and face protection

###### Eye protection:

Chemical goggles or face shield. Contact lenses should not be worn

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Neoprene or nitrile rubber gloves

##### 8.2.2.3. Respiratory protection

###### 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.

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

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### SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                  | : Liquid                               |
| Colour  | : Straw.                               |
| Appearance                                      | : Clear liquid.                        |
| Molecular mass                                  | : 136.69 g/mol                         |
| Odour   | : Acrid. Similar to hydrogen chloride. |
| Odour threshold                                 | : Not available                        |
| Melting point                                   | : Not available                        |
| Freezing point                                  | : < 0 °C                               |
| Boiling point                                   | : 114 °C                               |
| Flammability                                    | : Highly flammable liquid and vapour.  |
| Explosive limits                                | : Not available                        |
| Lower explosion limit                           | : Not available                        |
| Upper explosion limit                           | : Not available                        |
| Flash point                                     | : 15 °C                                |
| Auto-ignition temperature                       | : Not available                        |
| Decomposition temperature                       | : Not available                        |
| pH  | : Not available                        |
| Viscosity, kinematic                            | : Not available                        |
| Solubility                                      | : Reacts with water.                   |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                        |
| Vapour pressure                                 | : Not available                        |
| Vapour pressure at 50°C                         | : Not available                        |
| Density   | : Not available                        |
| Relative density                                | : 0.873                                |
| Relative vapour density at 20°C                 | : > 1                                  |
| Particle characteristics                        | : Not applicable                       |

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

No additional information available

##### 9.2.2. Other safety characteristics

|                  |          |
|------------------|----------|
| VOC content      | : > 25 % |
| Refractive index | : 1.4138 |

### 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

Acids. alcohols. Oxidizing agent.

#### 10.6. Hazardous decomposition products

Hydrogen chloride. Organic acid vapors.

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                                   |                              |
|-----------------------------------|------------------------------|
| Acute toxicity (oral)             | : Not classified             |
| Acute toxicity (dermal)           | : Not classified             |
| Acute toxicity (inhalation)       | : Not classified             |
| Skin corrosion/irritation         | : Causes severe skin burns.  |
| 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             |

#### 11.2. Information on other hazards

No additional information available

### SECTION 12: Ecological information

#### 12.1. Toxicity

|   |                  |
|---|------------------|
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : 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. Endocrine disrupting properties

No additional information available

#### 12.7. 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.. |
| Additional information                     | : Handle empty containers with care because residual vapours are flammable.   |
| Ecological information                     | : Avoid release to the environment.   |






### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

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| ADR   | IMDG  | IATA  | ADN  | RID   |
|---|---|---|--|---|
| <b>14.1. UN number or ID number</b>   |   |   |  |   |
| UN 2985   | UN 2985   | UN 2985   | UN 2985  | UN 2985   |
| <b>14.2. UN proper shipping name</b>  |   |   |  |   |
| CHLOROSILANES,<br>FLAMMABLE,<br>CORROSIVE, N.O.S.                                 | CHLOROSILANES,<br>FLAMMABLE,<br>CORROSIVE, N.O.S.                                 | Chlorosilanes, flammable,<br>corrosive, n.o.s.                                    | CHLOROSILANES,<br>FLAMMABLE,<br>CORROSIVE, N.O.S.                                  | CHLOROSILANES,<br>FLAMMABLE,<br>CORROSIVE, N.O.S.                                   |
| <b>Transport document description</b>   |   |   |  |   |
| UN 2985<br>CHLOROSILANES,<br>FLAMMABLE,<br>CORROSIVE, N.O.S., 3<br>(8), II, (D/E) | UN 2985<br>CHLOROSILANES,<br>FLAMMABLE,<br>CORROSIVE, N.O.S., 3<br>(8), II        | UN 2985 Chlorosilanes,<br>flammable, corrosive,<br>n.o.s., 3 (8), II              | UN 2985<br>CHLOROSILANES,<br>FLAMMABLE,<br>CORROSIVE, N.O.S., 3<br>(8), II         | UN 2985<br>CHLOROSILANES,<br>FLAMMABLE,<br>CORROSIVE, N.O.S., 3<br>(8), II          |
| <b>14.3. Transport hazard class(es)</b>   |   |   |  |   |
| 3 (8)   | 3 (8)   | 3 (8)   | 3 (8)  | 3 (8)   |
|  |  |  |  |  |
| <b>14.4. Packing group</b>  |   |   |  |   |
| II  | II  | II  | II   | II  |
| <b>14.5. Environmental hazards</b>  |   |   |  |   |
| Dangerous for the<br>environment: No  | Dangerous for the<br>environment: No<br>Marine pollutant: No                      | Dangerous for the<br>environment: No  | Dangerous for the<br>environment: No   | Dangerous for the<br>environment: No  |
| 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 |
|-------------------------------|-------|

### Transport by sea

|                            |      |
|----------------------------|------|
| Limited quantities (IMDG)  | : 0  |
| Excepted quantities (IMDG) | : E0 |

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|                                    |  |
|------------------------------------|--|
| 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             |
| 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              |
| Colis express (express parcels) (RID)                     | : CE7            |
| Hazard identification number (RID)                        | : X338           |

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable



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### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

###### REACH Annex XVII (Restriction List)

###### EU restriction list (REACH Annex XVII)

| Reference code | Applicable on   | Entry title or description   |
|----------------|---|--|
| 3(a)           | ISOPROPYLDIMETHYLCHLOROSILANE ;<br>Isopropyl dimethylchlorosilane | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F   |
| 3(b)           | ISOPROPYLDIMETHYLCHLOROSILANE ;<br>Isopropyl dimethylchlorosilane | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10  |
| 40.            | ISOPROPYLDIMETHYLCHLOROSILANE ;<br>Isopropyl dimethylchlorosilane | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

###### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

###### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

###### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

###### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

###### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

###### VOC Directive (2004/42)

VOC content : > 25 %

###### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

###### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

##### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No additional information available

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### 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:

|               |  |
|---------------|--|
| EUH014        | Reacts violently with water.                           |
| Eye Dam. 1    | Serious eye damage/eye irritation, Category 1          |
| Flam. Liq. 2  | Flammable liquids, Category 2                          |
| H225          | Highly flammable liquid and vapour.                    |
| H314          | Causes severe skin burns and eye damage.               |
| H318          | Causes serious eye damage.                             |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |

SDS EU (REACH Annex II) - Custom v22

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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