



# ISOPROPYLDIMETHYLCHLOROSILANE

Safety Data Sheet SII6462.0

Date of issue: 09/23/2015 Version: 1.0

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

### 1.1. Product identifier

Product form : Substance  
 Physical state : Liquid  
 Substance name : ISOPROPYLDIMETHYLCHLOROSILANE  
 Product code : SII6462.0  
 Formula : C<sub>5</sub>H<sub>13</sub>ClSi  
 Synonyms : 1-DIMETHYLCHLOROSILYL-1-METHYLETHANE  
 Chemical family : ORGANOCHLOROSILANE

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

Use of the substance/mixture : Chemical intermediate  
 For research and industrial use only

### 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)

### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification (GHS-US)

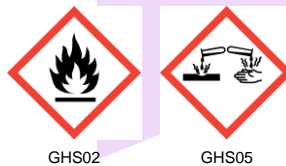
Flam. Liq. 2 H225  
 Skin Corr. 1B H314  
 Eye Dam. 1 H318

Full text of H-phrases: see section 16

### 2.2. Label elements

#### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS02

GHS05

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapor  
 H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-US) :

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P210 - Keep away from heat, open flames, sparks. - No smoking  
 P233 - Keep container tightly closed  
 P240 - Ground/bond container and receiving equipment  
 P241 - Use explosion-proof electrical equipment  
 P242 - Use only non-sparking tools  
 P243 - Take precautionary measures against static discharge  
 P260 - Do not breathe vapors  
 P264 - Wash hands thoroughly after handling  
 P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
 P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower  
 P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P310 - Immediately call a doctor  
 P321 - Specific treatment (see first aid instructions on this label)  
 P363 - Wash contaminated clothing before reuse  
 P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide, dry chemical to

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extinguish  
P403+P235 - Keep in a cool place  
P405 - Store locked up  
P501 - Dispose of contents/container to licensed waste disposal facility.

### 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.

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

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

| Name                    | Product identifier | %           | Classification (GHS-US)                                       |
|-------------------------|--------------------|-------------|---------------------------------------------------------------|
| Isopropyldimethylsilane | (CAS No) 3634-56-8 | 97 -<br>100 | Flam. Liq. 2, H225<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318 |

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

Symptoms/injuries : Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : Causes (severe) skin burns.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : May be harmful if swallowed.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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 vapor. 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 vapor-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 vapor and mist.

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### 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 Heading 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 vapors are flammable. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and receiving equipment. Provide good ventilation in process area to prevent accumulation of vapors. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

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

Technical measures : 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

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 : 136.69 g/mol

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|                                             |                                        |
|---------------------------------------------|----------------------------------------|
| Color                                       | : Straw.                               |
| Odor                                        | : Acrid. Similar to hydrogen chloride. |
| Odor threshold                              | : No data available                    |
| Refractive index                            | : 1.4138                               |
| pH                                          | : No data available                    |
| Relative evaporation rate (butyl acetate=1) | : No data available                    |
| Melting point                               | : No data available                    |
| Freezing point                              | : < 0 °C                               |
| Boiling point                               | : 114 °C                               |
| Flash point                                 | : 15 °C                                |
| Auto-ignition temperature                   | : No data available                    |
| Decomposition temperature                   | : No data available                    |
| Flammability (solid, gas)                   | : Highly flammable liquid and vapor    |
| Vapor pressure                              | : No data available                    |
| Relative vapor density at 20 °C             | : > 1                                  |
| Relative density                            | : 0.873                                |
| VOC content                                 | : > 25 %                               |
| 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                    |
| Oxidizing properties                        | : No data available                    |
| Explosion 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

Acids. Alcohols. Oxidizing agent.

### 10.6. Hazardous decomposition products

Hydrogen chloride. Organic acid vapors.

## 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 sensitization                  | : Not classified                           |
| Germ cell mutagenicity                             | : Not classified                           |
| Carcinogenicity                                    | : Not classified                           |
| Reproductive toxicity                              | : Not classified                           |
| Specific target organ toxicity (single exposure)   | : Not classified                           |
| Specific target organ toxicity (repeated exposure) | : Not classified                           |
| Aspiration hazard                                  | : Not classified                           |

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|                                      |                                                  |
|--------------------------------------|--------------------------------------------------|
| Symptoms/injuries after inhalation   | : May cause irritation to the respiratory tract. |
| Symptoms/injuries after skin contact | : Causes (severe) skin burns.                    |
| Symptoms/injuries after eye contact  | : Causes serious eye damage.                     |
| Symptoms/injuries after ingestion    | : May be harmful if swallowed.                   |
| Reason for classification            | : Expert judgment                                |

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 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. Other adverse effects

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
| Other adverse effects        | : This substance may be hazardous to the environment. |
| Effect on ozone layer        | : No additional information available                 |
| Effect on the global warming | : No known ecological damage caused by this product.  |

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                 |                                                                                                                                              |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Sewage disposal recommendations | : Do not dispose of waste into sewer.                                                                                                        |
| Waste 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 vapors are flammable.                                                                   |
| Ecology - waste materials       | : Avoid release to the environment.                                                                                                          |

### SECTION 14: Transport information

#### 14.1. UN number

|             |          |
|-------------|----------|
| UN-No.(DOT) | : 2985   |
| DOT NA no.  | : UN2985 |

#### 14.2. UN proper shipping name

|                                                   |                                                                                  |
|---------------------------------------------------|----------------------------------------------------------------------------------|
| Proper Shipping Name (DOT)                        | : Chlorosilanes, flammable, corrosive, n.o.s.<br>(ISOPROPYLDIMETHYLCHLOROSILANE) |
| Department of Transportation (DOT) Hazard Classes | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120                  |
| Hazard labels (DOT)                               | : 3 - Flammable liquid<br>8 - Corrosive                                          |



|                                           |                      |
|-------------------------------------------|----------------------|
| Packing group (DOT)                       | : II - Medium Danger |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : none               |
| DOT Packaging Non Bulk (49 CFR 173.xxx)   | : 206                |
| DOT Packaging Bulk (49 CFR 173.xxx)       | : 243                |

#### 14.3. Additional information

Other information : No supplementary information available.

#### Transport by sea

|                             |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Vessel Stowage Location | : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. |
| DOT Vessel Stowage Other    | : 40 - Stow "clear of living quarters"                                                                                                                                                                                                                                                                                                                                                                |

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### Air transport

DOT Quantity Limitations Passenger aircraft/rail : Forbidden  
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 5 L  
CFR 175.75)

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Isopropyldimethylsilane (3634-56-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### Isopropyldimethylsilane (3634-56-8)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

### 15.3. US State regulations

#### ISOPROPYLDIMETHYLCHLOROSILANE(3634-56-8)

|                                                                     |    |
|---------------------------------------------------------------------|----|
| U.S. - California - Proposition 65 - Carcinogens List               | No |
| U.S. - California - Proposition 65 - Developmental Toxicity         | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male   | No |

#### Isopropyldimethylsilane (3634-56-8)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
|-------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------|
| No                                                    | No                                                          | No                                                                  | No                                                                |                                   |

## SECTION 16: Other information

Abbreviations and acronyms : Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

Full text of H-phrases::

|               |                                              |
|---------------|----------------------------------------------|
| 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        |
| H225          | Highly flammable liquid and vapor            |
| H314          | Causes severe skin burns and eye damage      |
| H318          | Causes serious eye damage                    |

### HMIS III Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given  
Flammability : 4 Severe Hazard  
Physical : 1 Slight Hazard

Prepared by safety and environmental affairs.

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SDS US (GHS HazCom 2012) - Custom

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According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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