

**ALLYLPHENYLDICHLOROSILANE, 95%**

Safety Data Sheet SIA0486.0

Date of issue: 12/10/2015 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  | : ALLYLPHENYLDICHLOROSILANE, 95%  |
| Product code    | : SIA0486.0   |
| Formula         | : C <sub>9</sub> H <sub>10</sub> Cl <sub>2</sub> Si   |
| Synonyms        | : PHENYL-2-PROPENYLDICHLOROSILANE; ALLYLDICHLOROPHENYLSILANE; SILANE, DICHLOROPHENYL-2-PROPENYL-; BENZENE, (DICHLORO-2-PROPEN-1-YLSILYL)- |
| Chemical family | : ORGANOCHLOROSILANE  |

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

|                              |   |
|------------------------------|---|
| Use of the substance/mixture | : Chemical intermediate<br>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****GHS-US classification**

Flam. Liq. 4 H227

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) :



GHS05

|                                   |   |
|-----------------------------------|---|
| Signal word (GHS-US)              | : Danger  |
| Hazard statements (GHS-US)        | : H227 - Combustible liquid<br>H314 - Causes severe skin burns and eye damage   |
| Precautionary statements (GHS-US) | : P280 - Wear protective gloves/protective clothing/eye protection/face protection<br>P210 - Keep away from heat, open flames, sparks. - No smoking<br>P260 - Do not breathe vapors<br>P264 - Wash hands thoroughly after handling<br>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting<br>P303+P361+P353 - If on skin (or hair): take off immediately all contaminated clothing. rinse skin with water/shower<br>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing<br>P310 - Immediately call a doctor<br>P321 - Specific treatment (see first aid instructions on this label)<br>P363 - Wash contaminated clothing before reuse<br>P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish<br>P403+P235 - Keep in a cool place<br>P405 - Store locked up<br>P501 - Dispose of contents/container to licensed waste disposal facility. |

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### 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 : ALLYLPHENYLDICHLOROSILANE, 95%  
CAS No : 7719-03-1  
EC no : 231-747-2

| Name                      | Product identifier | %           | GHS-US classification   |
|---------------------------|--------------------|-------------|---|
| Allylphenyldichlorosilane | (CAS No) 7719-03-1 | 95 -<br>100 | Flam. Liq. 4, H227<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.

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 : Water spray. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : Water.

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

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

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.

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.

## 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.

#### 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

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### 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 : 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. Use only non-sparking tools.

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

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

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

Incompatible materials : Alkalis. Metal salts. Oxidizing agent. Precious metals.

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 : 217.17 g/mol

Color : No data available

Odor : Acrid. Similar to hydrogen chloride.

Odor threshold : No data available

Refractive index : 1.5351

pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : < 0 °C

Freezing point : No data available

Boiling point : 100 - 102 °C @ 8 mm Hg

Flash point : 76 °C

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|                                 |  |
|---------------------------------|--|
| Auto-ignition temperature       | : No data available                      |
| Decomposition temperature       | : No data available                      |
| Flammability (solid, gas)       | : Combustible liquid                     |
| Vapor pressure                  | : 1 mm Hg @ 25°C                         |
| Relative vapor density at 20 °C | : > 1                                    |
| Relative density                | : 1.168                                  |
| Solubility                      | : Insoluble in water. 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 under 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. Metal salts. Oxidizing agent. Precious metals.

### 10.6. Hazardous decomposition products

Hydrogen. Hydrogen chloride. Organic acid vapors. Silicon dioxide.

## 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                                 |
| 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

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### 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.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### 14.1. UN number

UN-No.(DOT) : 2987  
DOT NA no. UN2987

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Chlorosilanes, corrosive, n.o.s.  
(ALLYLPHENYLDICHLOROSILANE)  
Transport hazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136  
Hazard labels (DOT) : 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) : 242

### 14.3. Additional information

Other information : No supplementary information available.

### Transport by sea

DOT Vessel Stowage Location : C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.  
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

### Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 30 L

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Allylphenyldichlorosilane (7719-03-1)

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

### 15.2. International regulations

#### Allylphenyldichlorosilane (7719-03-1)

Listed on the Canadian NDSL (Non-Domestic Substances List)  
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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### 15.3. US State regulations

| ALLYLPHENYLDICHLOROSILANE, 95%(7719-03-1)                           |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| 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  |   |                                   |
| Allylphenyldichlorosilane (7719-03-1)                               |   |   |   |                                   |
| 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 | Non-significant 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. 4  | Flammable liquids Category 4                 |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B        |
| H227          | Combustible liquid                           |
| 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 : 2 Moderate Hazard  
Physical : 1 Slight Hazard

Prepared by safety and environmental affairs.

Date of issue: 12/10/2015 Version: 1.0

SDS US (GHS HazCom 2012) - Custom

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

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