



## ALLYLTRIS(TRIMETHYLSILOXY)SILANE

Safety Data Sheet SIA0585.0

Date of issue: 08/15/2016

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Version: 1.1

### SECTION 1: Identification

#### 1.1. Identification

Product name : ALLYLTRIS(TRIMETHYLSILOXY)SILANE  
 Product code : SIA0585.0  
 Product form : Substance  
 Physical state : Liquid  
 Formula : C<sub>12</sub>H<sub>32</sub>O<sub>3</sub>Si<sub>4</sub>  
 Synonyms : 3-ALLYL-3-(TRIMETHYLSILOXY)-1,1,1-5,5,5-HEXAMETHYLTRISILOXANE  
 Chemical family : ORGANOSILANE

#### 1.2. Recommended use and restrictions on use

Recommended use : Chemical intermediate

#### 1.3. Supplier

##### 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: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Flammable liquids Category 4 H227 Combustible liquid  
 Serious eye damage/eye irritation Category 2A H319 Causes serious eye irritation  
 Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H227 - Combustible liquid  
 H319 - Causes serious eye irritation

Precautionary statements (GHS US) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
 P210 - Keep away from heat, open flames, sparks. - No smoking.  
 P264 - Wash hands thoroughly after handling.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish.  
 P403+P235 - Keep in a cool place  
 P501 - Dispose of contents/container to licensed waste disposal facility.

#### 2.3. Hazards not otherwise classified (HNOC)

No additional information available

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

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Substance type : Mono-constituent  
 Name : ALLYLTRIS(TRIMETHYLSILOXY)SILANE  
 CAS-No. : 7087-21-0

# ALLYLTRIS(TRIMETHYLSILOXY)SILANE

## Safety Data Sheet

| Name                             | Product identifier  | %        | GHS-US classification                     |
|----------------------------------|---------------------|----------|---|
| Allyltris(trimethylsiloxy)silane | (CAS-No.) 7087-21-0 | 95 - 100 | Flam. Liq. 4, H227<br>Eye Irrit. 2A, H319 |

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label. |
| First-aid measures after inhalation   | : Remove 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 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. Consult an ophthalmologist if irritation persists.                               |
| First-aid measures after ingestion    | : Never give anything by mouth to an unconscious person. Get medical advice/attention.   |

### 4.2. Most important symptoms and effects (acute and delayed)

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract. |
| Symptoms/effects after skin contact | : May cause skin irritation.                     |
| Symptoms/effects after eye contact  | : Causes serious eye irritation.                 |
| Symptoms/effects after ingestion    | : No information available.                      |

### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Foam. Carbon dioxide. Dry chemical. |
| Unsuitable extinguishing media | : None known.                                      |

### 5.2. Specific hazards arising from the chemical

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

### 5.3. Special protective equipment and precautions for fire-fighters

|                                |   |
|--------------------------------|---|
| 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

#### 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 | : Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
|-----------------------------------|--|

# ALLYLTRIS(TRIMETHYLSILOXY)SILANE

## Safety Data Sheet

|                               |   |
|-------------------------------|---|
| 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.    |
| Incompatible materials | : Oxidizing agent.  |
| Storage area           | : Store in a well-ventilated place. Store away from heat. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

|                                  |  |
|----------------------------------|--|
| Appropriate engineering controls | : Provide local exhaust or general room ventilation. |
|----------------------------------|--|

### 8.3. Individual protection measures/Personal protective 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.

#### Hand protection:

Neoprene or nitrile rubber gloves

#### Eye protection:

Chemical goggles. 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 organic vapor (black 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                              | : 336.73 g/mol            |
| Color                                       | : Straw.                  |
| Odor  | : Distinct. Mild.         |
| Odor threshold                              | : No data available       |
| Refractive index                            | : 1.4008                  |
| pH  | : No data available       |
| Relative evaporation rate (butyl acetate=1) | : No data available       |
| Melting point                               | : No data available       |
| Freezing point                              | : < 0 °C                  |
| Boiling point                               | : 110 - 111 °C @ 20 mm Hg |
| Flash point                                 | : 67 °C                   |
| Auto-ignition temperature                   | : No data available       |
| Decomposition temperature                   | : No data available       |
| Flammability (solid, gas)                   | : Combustible liquid      |
| Vapor pressure                              | : < 1 mm Hg @ 20°C        |
| Relative vapor density at 20 °C             | : > 1                     |
| Relative density                            | : 0.861                   |
| % Volatiles                                 | : < 3 %                   |
| Solubility                                  | : Insoluble in water.     |
| Log Pow                                     | : No data available       |

# ALLYLTRIS(TRIMETHYLSILOXY)SILANE

## Safety Data Sheet

|                      |                     |
|----------------------|---------------------|
| 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

No additional information available

### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

Organic acid vapors.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|  |  |
|--|--|
| Acute toxicity                                     | : Not classified                                 |
| Skin corrosion/irritation                          | : Not classified                                 |
| Serious eye damage/irritation                      | : Causes serious eye irritation.                 |
| 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/effects after inhalation                  | : May cause irritation to the respiratory tract. |
| Symptoms/effects after skin contact                | : May cause skin irritation.                     |
| Symptoms/effects after eye contact                 | : Causes serious eye irritation.                 |
| Symptoms/effects after ingestion                   | : No information available.                      |
| 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 the ozone layer | : No additional information available                 |

# ALLYLTRIS(TRIMETHYLSILOXY)SILANE

## Safety Data Sheet

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

- Sewage disposal recommendations : Do not dispose of waste into sewer.
- Product/Packaging disposal recommendations : May be incinerated. 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

DOT NA no. NA1993

#### 14.2. UN proper shipping name

- Transport document description : NA1993 Combustible liquid, n.o.s. (ALLYLTRIS(TRIMETHYLSILOXY)SILANE), 3, III
- Proper Shipping Name (DOT) : Combustible liquid, n.o.s.  
(ALLYLTRIS(TRIMETHYLSILOXY)SILANE)
- Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
- Packing group (DOT) : III - Minor Danger
- DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
- DOT Packaging Bulk (49 CFR 173.xxx) : 241
- DOT Packaging Exceptions (49 CFR 173.xxx) : 150
- DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requiring a technical name

#### 14.3. Additional information

- Other information : This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons (450 liters). The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations.

#### Transport by sea

- DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

#### Air transport

- DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L
- DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### ALLYLTRIS(TRIMETHYLSILOXY)SILANE (7087-21-0)

TSCA Exemption/Exclusion

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

##### Allyltris(trimethylsiloxy)silane (7087-21-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

# ALLYLTRIS(TRIMETHYLSILOXY)SILANE

## Safety Data Sheet

### SECTION 16: Other information

Full text of H-phrases::

|      |                               |
|------|-------------------------------|
| H227 | Combustible liquid            |
| H319 | Causes serious eye irritation |

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.

### Hazard Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Prepared by safety and environmental affairs.

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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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