

**n-OCTADECYLDIMETHYLCHLOROSILANE, 70% in toluene**

Safety Data Sheet SIO6615.2

Issue date: 06/03/2015

Revision date: 11/21/2023

Version: 1.2

**SECTION 1: Identification****1.1. Identification**

|                 |   |
|-----------------|---|
| Product name    | : n-OCTADECYLDIMETHYLCHLOROSILANE, 70% in toluene                   |
| Product code    | : SIO6615.2   |
| Product form    | : Mixture   |
| Physical state  | : Liquid  |
| Formula         | : C <sub>20</sub> H <sub>43</sub> ClSi                              |
| Synonyms        | : CHLORODIMETHYLOCTADECYLSILANE<br>DIMETHYL-N-OCTADECYLCHLOROSILANE |
| Chemical family | : CHLOROSILANE  |

**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 2   | H225 | Highly flammable liquid and vapor  |
| Skin corrosion/irritation Category 1B                                  | H314 | Causes severe skin burns and eye damage  |
| Serious eye damage/eye irritation Category 1                           | H318 | Causes serious eye damage  |
| Reproductive toxicity Category 2                                       | H361 | Suspected of damaging fertility or the unborn child  |
| Specific target organ toxicity – Single exposure, Category 3, Narcosis | H336 | May cause drowsiness or dizziness  |
| Specific target organ toxicity (repeated exposure) Category 2          | H373 | May cause damage to organs (central nervous system, kidneys, liver) through prolonged or repeated exposure |
| 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)

: Danger

Hazard statements (GHS US)

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

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Precautionary statements (GHS US)

- H336 - May cause drowsiness or dizziness  
H361 - Suspected of damaging fertility or the unborn child  
H373 - May cause damage to organs (central nervous system, kidneys, liver) through prolonged or repeated exposure
- : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
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.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear eye protection, protective gloves, protective clothing.  
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  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P310 - Immediately call a doctor.  
P312 - Call a poison center or doctor if you feel unwell.  
P314 - Get medical advice/attention if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P363 - Wash contaminated clothing before reuse.  
P370+P378 - In case of fire: Use water spray, foam, carbon dioxide, dry chemical to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Keep in a cool place  
P405 - Store locked up.  
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

Not applicable

### 3.2. Mixtures

| Name                          | Product identifier  | %    | GHS US classification                   |
|-------------------------------|---------------------|------|---|
| Octadecyldimethylchlorosilane | CAS-No.: 18643-08-8 | > 65 | Skin Corr. 1B, H314<br>Eye Dam. 1, H318 |

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| Name  | Product identifier | %    | GHS US classification  |
|---|--------------------|------|--|
| Toluene                                     | CAS-No.: 108-88-3  | > 25 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Inhalation:vapour), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Repr. 2, H361<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304 |
| Other Octadecyldimethylchlorosilane isomers | CAS-No.: not found | < 15 | Skin Corr. 1B, H314<br>Eye Dam. 1, H318  |

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

## 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. Call a POISON CENTER or doctor/physician if you feel unwell.  |
| 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. Immediately call a poison center or doctor/physician.   |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects                    | : Causes severe skin burns and eye damage. Causes damage to organs.   |
| Symptoms/effects after inhalation   | : May cause drowsiness or dizziness. Overexposure may cause: Coughing. Headache. Nausea. Impairment of coordination, distorted perception and CNS disturbances have been reported for toluene intoxication. |
| 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.  |

### 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. |
|------------------------------|--|

### 5.2. Specific hazards arising from the chemical

|                  |  |
|------------------|--|
| Fire hazard      | : Flammable liquid and vapor. Irritating fumes of hydrogen chloride 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. Special protective equipment and precautions for fire-fighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical 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 : Remove ignition sources. Use special care to avoid static electric charges.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper 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

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.

#### 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.

Precautions for safe handling : Containers must be properly grounded before beginning transfer. Provide good ventilation in process area to prevent accumulation of vapors. Take precautionary measures against static discharge. Use only non-sparking tools. Do not breathe mist. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands thoroughly after handling.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment. Comply with applicable regulations.

Storage conditions : Keep container tightly closed.

Incompatible materials : Acids. Alcohols. Oxidizing agent.

Storage area : Store in a well-ventilated place. Store away from heat.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Toluene (108-88-3)

##### USA - ACGIH - Occupational Exposure Limits

|                         |   |
|-------------------------|---|
| Local name              | Toluene   |
| ACGIH OEL TWA           | 20 ppm  |
| Remark (ACGIH)          | TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen  |
| Regulatory reference    | ACGIH 2023  |

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### Toluene (108-88-3)

#### USA - ACGIH - Biological Exposure Indices

|                      |   |
|----------------------|---|
| Local name           | TOLUENE   |
| BEI (BLV)            | 0.02 mg/l (Medium: blood - Time: prior to last shift of workweek - Parameter: Toluene)<br>0.03 mg/l (Medium: urine - Time: end of shift - Parameter: Toluene)<br>0.3 mg/g Kreatinin (Medium: urine - Time: end of shift - Parameter: o-Cresol with hydrolysis (background)) |
| Regulatory reference | ACGIH 2023  |

#### USA - OSHA - Occupational Exposure Limits

|  |                          |
|--|--------------------------|
| Local name   | Toluene                  |
| OSHA PEL TWA   | 200 ppm                  |
| OSHA PEL (Ceiling)   | 300 ppm                  |
| Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift | 500 ppm 10 mins.         |
| Regulatory reference (US-OSHA)   | OSHA Annotated Table Z-2 |

#### USA - IDLH - Occupational Exposure Limits

|      |         |
|------|---------|
| IDLH | 500 ppm |
|------|---------|

#### USA - NIOSH - Occupational Exposure Limits

|                  |                       |
|------------------|-----------------------|
| NIOSH REL (TWA)  | 375 mg/m <sup>3</sup> |
|                  | 100 ppm               |
| NIOSH REL (STEL) | 560 mg/m <sup>3</sup> |
|                  | 150 ppm               |

### 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 or face shield. 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 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 | : 347.1 g/mol   |

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|   |  |
|---|--|
| Color   | : Straw. Amber.                          |
| Odor  | : Acrid.                                 |
| Odor threshold                                  | : No data available                      |
| pH  | : No data available                      |
| Relative evaporation rate (butyl acetate=1)     | : No data available                      |
| Melting point                                   | : No data available                      |
| Freezing point                                  | : No data available                      |
| Boiling point                                   | : 159 °C @ 0.1 mm Hg                     |
| Flash point                                     | : 10 °C                                  |
| Auto-ignition temperature                       | : No data available                      |
| Decomposition temperature                       | : No data available                      |
| Flammability (solid, gas)                       | : Flammable liquid and vapor.            |
| Vapor pressure                                  | : ~ 35 mm Hg @ 30°C                      |
| Relative vapor density at 20°C                  | : 3.4 (toluene)                          |
| Relative density                                | : 0.854                                  |
| Solubility                                      | : Insoluble in water. Reacts with water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                      |
| Partition coefficient n-octanol/water (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 (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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### Toluene (108-88-3)

|                       |              |
|-----------------------|--------------|
| LD50 oral rat         | 2600 mg/kg   |
| LD50 dermal rabbit    | 12000 mg/kg  |
| LC50 Inhalation - Rat | 12.5 mg/l/4h |

|  |                              |
|--|------------------------------|
| Skin corrosion/irritation  | : Causes severe skin burns.  |
| Serious eye damage/irritation  | : Causes serious eye damage. |
| Respiratory or skin sensitization  | : Not classified             |
| Germ cell mutagenicity   | : Not classified             |
| 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. |                              |

### Toluene (108-88-3)

|            |                      |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

|                        |   |
|------------------------|---|
| Reproductive toxicity  | : Suspected of damaging fertility or the unborn child.<br>Toluene is mildly toxic by inhalation and is reported as an experimental teratogen. |
| STOT-single exposure   | : May cause drowsiness or dizziness.  |
| STOT-repeated exposure | : May cause damage to organs (central nervous system, kidneys, liver) through prolonged or repeated exposure.                                 |

### Toluene (108-88-3)

|                                      |   |
|--------------------------------------|---|
| LOAEL (oral,rat,90 days)             | 1250 mg/kg body weight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents) |
| NOAEL (oral,rat,90 days)             | 625 mg/kg body weight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)  |
| NOAEC (inhalation,rat,vapor,90 days) | 2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)  |

|                                     |   |
|-------------------------------------|---|
| Aspiration hazard                   | : Not classified  |
| Symptoms/effects after inhalation   | : May cause drowsiness or dizziness. Overexposure may cause: Coughing. Headache. Nausea. Impairment of coordination, distorted perception and CNS disturbances have been reported for toluene intoxication. |
| 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

#### Toluene (108-88-3)

|                      |  |
|----------------------|--|
| LC50 - Fish [1]      | 15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 - Crustacea [1] | 5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])               |
| LC50 - Fish [2]      | 12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])                |
| EC50 - Crustacea [2] | 11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)                               |
| EC50 72h - Algae [1] | 12.5 mg/l (Species: Pseudokirchneriella subcapitata [static])                          |
| EC50 96h - Algae [1] | > 433 mg/l (Species: Pseudokirchneriella subcapitata)                                  |
| LOEC (chronic)       | 2.76 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'                 |
| NOEC (chronic)       | 0.74 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'                 |

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### Toluene (108-88-3)

NOEC chronic fish

1.39 mg/l Test organisms (species): Oncorhynchus kisutch Duration: '40 d'

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

### Toluene (108-88-3)

Partition coefficient n-octanol/water (Log Pow)

2.65

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods







Product/Packaging disposal recommendations : Hydrolyze material by mixing with water in a hood. Liquid layer contains hydrochloric acid which should be neutralized. 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.

Ecological information : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT   | TDG            | IMDG  | IATA  |
|---|----------------|---|---|
| <b>14.1. UN number</b>  |                |   |   |
| 2985  | Not applicable | 2985  | 2985  |
| <b>14.2. Proper Shipping Name</b>   |                |   |   |
| Chlorosilanes, flammable, corrosive, n.o.s.   | Not applicable | CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S.   | Chlorosilanes, flammable, corrosive, n.o.s.   |
| <b>Transport document description</b>   |                |   |   |
| UN2985 Chlorosilanes, flammable, corrosive, n.o.s., 3 (8), II   | Not applicable | UN 2985 CHLOROSILANES, FLAMMABLE, CORROSIVE, N.O.S., 3 (8), II  | UN 2985 Chlorosilanes, flammable, corrosive, n.o.s., 3 (8), II  |
| <b>14.3. Transport hazard class(es)</b>   |                |   |   |
| 3 (8)   | Not applicable | 3 (8)   | 3 (8)   |
|   | Not applicable |   |   |
| <b>14.4. Packing group</b>  |                |   |   |
| II  | Not applicable | II  | II  |



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| DOT                                    | TDG                               | IMDG  | IATA                              |
|--|-----------------------------------|---|-----------------------------------|
| <b>14.5. Environmental hazards</b>     |                                   |   |                                   |
| Dangerous for the environment: No      | Dangerous for the environment: No | Dangerous for the environment: No<br>Marine pollutant: No | Dangerous for the environment: No |
| No supplementary information available |                                   |   |                                   |

## 14.6. Special precautions for user

### DOT

|  |   |
|--|---|
| UN-No.(DOT)  | : UN2985  |
| DOT Special Provisions (49 CFR 172.102)                          | : T14 - 6 mm Prohibited 178.275(g)(3).<br>TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.<br>TP7 - The vapor space must be purged of air by nitrogen or other means.<br>TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.<br>TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. |
| 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   |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : Forbidden   |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : 5 L   |
| 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"  |

### TDG

|                                       |       |
|---------------------------------------|-------|
| Emergency Response Guide (ERG) Number | : 155 |
|---------------------------------------|-------|

### IMDG

|                                    |  |
|------------------------------------|--|
| Limited quantities (IMDG)          | : 0  |
| Excepted quantities (IMDG)         | : E0   |
| Packing instructions (IMDG)        | : P010   |
| Tank instructions (IMDG)           | : T14  |
| Tank special provisions (IMDG)     | : TP2, TP7, TP13, TP27   |
| EmS-No. (Fire)                     | : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS  |
| EmS-No. (Spillage)                 | : S-C - SPILLAGE SCHEDULE Charlie - FLAMMABLE CORROSIVE LIQUIDS  |
| 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. |

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### IATA

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

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

| Name  | CAS-No.    | Listing     | Commercial status | Flags |
|---|------------|-------------|-------------------|-------|
| Octadecyldimethylchlorosilane               | 18643-08-8 | Present     | Active            |       |
| Toluene                                     | 108-88-3   | Present     | Active            |       |
| Other Octadecyldimethylchlorosilane isomers | not found  | Not present | -                 |       |

### Toluene (108-88-3)

Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

|           |         |
|-----------|---------|
| CERCLA RQ | 1000 lb |
|-----------|---------|

### 15.2. International regulations

#### CANADA

### Octadecyldimethylchlorosilane (18643-08-8)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### Toluene (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

### Octadecyldimethylchlorosilane (18643-08-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### Toluene (108-88-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

### Octadecyldimethylchlorosilane (18643-08-8)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

# n-OCTADECYLDIMETHYLCHLOROSILANE, 70% in toluene

## Safety Data Sheet

### Toluene (108-88-3)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Japanese Poisonous and Deleterious Substances Control Law  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on CICR (Turkish Inventory and Control of Chemicals)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on Thailand Existing Chemicals Inventory (DIW)  
Listed on the NCI (Vietnam - National Chemical Inventory)

### 15.3. US State regulations



#### WARNING:

This product can expose you to Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### Toluene (108-88-3)

| 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 significant risk level (NSRL) | Maximum allowable dose level (MADL) |
|---|---|---|---|----------------------------------|-------------------------------------|
| No  | Yes   | Yes   | No  |                                  | 7000 µg/day                         |

### Toluene (108-88-3)

U.S. - Massachusetts - Right To Know List  
U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List  
U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Full text of H-phrases::

|      |   |
|------|---|
| H225 | Highly flammable liquid and vapor                                 |
| H304 | May be fatal if swallowed and enters airways                      |
| H314 | Causes severe skin burns and eye damage                           |
| H315 | Causes skin irritation  |
| H318 | Causes serious eye damage   |
| H319 | Causes serious eye irritation                                     |
| H332 | Harmful if inhaled  |
| H336 | May cause drowsiness or dizziness                                 |
| H361 | Suspected of damaging fertility or the unborn child               |
| H373 | May cause damage to organs through prolonged or repeated exposure |

# n-OCTADECYLDIMETHYLCHLOROSILANE, 70% in toluene

## Safety Data Sheet

### 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

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

#### Flammability

: 4 Severe Hazard - Flammable gases, or very volatile flammable liquids with flash points below 73 F, and boiling points below 100 F. Materials may ignite spontaneously with air. (Class IA)

#### Physical

: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Prepared by safety and environmental affairs.

Issue date: 06/03/2015

Revision date: 11/21/2023

Version: 1.2

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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