



# POLYDIETHYLSILOXANE, TRIETHYLSILOXY TERMINATED

Safety Data Sheet DES-T11

Date of issue: 04/10/2015

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 : POLYDIETHYLSILOXANE, TRIETHYLSILOXY TERMINATED  
 Product code : DES-T11  
 Synonyms : POLYDIETHYLSILOXANE; SILOXANES AND SILICONES, DIETHYL  
 Chemical family : ORGANOSILOXANE

### 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)

Not classified

### 2.2. Label elements

#### GHS-US labeling

No labeling applicable

### 2.3. Other hazards

No additional information available

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

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Substance type : Polymer  
 Name : POLYDIETHYLSILOXANE, TRIETHYLSILOXY TERMINATED  
 CAS No : 63148-61-8

| Name   | Product identifier  | %    | Classification (GHS-US) |
|--|---------------------|------|-------------------------|
| Polydiethylsiloxane, triethylsiloxy terminated | (CAS No) 63148-61-8 | > 95 | Not classified          |

### 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.

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 medical advice/attention.

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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, both acute and delayed

Symptoms/injuries after inhalation : No information available.  
Symptoms/injuries after skin contact : May cause mild skin irritation.  
Symptoms/injuries after eye contact : May cause eye irritation.  
Symptoms/injuries after ingestion : No information available.

### 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. Water fog. Foam. Carbon dioxide. Dry chemical.  
Unsuitable extinguishing media : None known.

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

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. 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.

## SECTION 6: Accidental release measures

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

#### 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

Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist.  
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

Storage conditions : Keep container tightly closed.  
Incompatible materials : 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. Contact lenses should not be worn.

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|--------------------------|--|
| 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. Viscous. |
| Molecular mass                              | : 350 - 400 g/mol        |
| Color                                       | : No data available      |
| Odor  | : No data available      |
| Odor threshold                              | : No data available      |
| Refractive index                            | : 1.439                  |
| pH  | : No data available      |
| Relative evaporation rate (butyl acetate=1) | : No data available      |
| Melting point                               | : No data available      |
| Freezing point                              | : < -40 °C               |
| Boiling point                               | : > 205 °C               |
| Flash point                                 | : 110 °C                 |
| Auto-ignition temperature                   | : No data available      |
| Decomposition temperature                   | : No data available      |
| Flammability (solid, gas)                   | : No data available      |
| Vapor pressure                              | : < 0.1 mm Hg            |
| Relative vapor density at 20 °C             | : No data available      |
| Relative density                            | : 0.913                  |
| VOC content                                 | : < 3 %                  |
| Solubility                                  | : Insoluble in water.    |
| Log Pow                                     | : No data available      |
| Log Kow                                     | : No data available      |
| Viscosity, kinematic                        | : 7 - 12 cSt             |
| Viscosity, dynamic                          | : No data available      |
| Explosive properties                        | : No data available      |
| Oxidizing properties                        | : No data available      |
| Explosive 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.

#### 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. Silicon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                                   |                  |
|-----------------------------------|------------------|
| Acute toxicity                    | : Not classified |
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitization | : Not classified |

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|  |                                   |
|--|-----------------------------------|
| 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                 | : No information available.       |
| Symptoms/injuries after skin contact               | : May cause mild skin irritation. |
| Symptoms/injuries after eye contact                | : May cause eye irritation.       |
| Symptoms/injuries after ingestion                  | : No information available.       |

### 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

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

|                                |   |
|--------------------------------|---|
| Waste disposal recommendations | : Incinerate. Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials      | : Avoid release to the environment.   |

### SECTION 14: Transport information

#### 14.1. UN number

Not regulated for transport.

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Additional information

Other information : No supplementary information available.

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Polydiethylsiloxane, triethylsiloxo terminated (63148-61-8)

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

#### 15.2. International regulations

##### Polydiethylsiloxane, triethylsiloxo terminated (63148-61-8)

Listed on the AICS (Australian Inventory of Chemical Substances)  
Listed on the Canadian NDSL (Non-Domestic Substances List)  
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 the Korean ECL (Existing Chemicals List)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

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### 15.3. US State regulations

| POLYDIETHYLSILOXANE, TRIETHYLSILOXY TERMINATED(63148-61-8)          |   |   |   |                                   |
|---|---|---|---|-----------------------------------|
| 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  |   |                                   |
| Polydiethylsiloxane, triethylsiloxo terminated (63148-61-8)         |   |   |   |                                   |
| 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.

#### HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible  
Flammability : 1 Slight Hazard  
Physical : 0 Minimal Hazard

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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