

## OCTAVINYL-T8-SILSESQUIOXANE

Safety Data Sheet SIO6706.0

Date of issue: 12/05/2014

Version: 1.0

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

#### 1.1. Product identifier

|                 |   |
|-----------------|---|
| Product form    | : Substance   |
| Physical state  | : Solid   |
| Substance name  | : OCTAVINYL-T8-SILSESQUIOXANE   |
| Product code    | : SIO6706.0   |
| Formula         | : C16H24O12Si8  |
| Synonyms        | : 1,3,5,7,9,11,13,15-OCTAVINYL PENTACYCLO[9.5.1.13,9.15,15.17,13]OCTASILOXANE |
| Chemical family | : ORGANOSILANE  |

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

|                              |  |
|------------------------------|--|
| Use of the substance/mixture | : Chemical intermediate<br>For research 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 | : Mono-constituent            |
| Name           | : OCTAVINYL-T8-SILSESQUIOXANE |
| CAS No         | : 69655-76-1                  |

| Name                      | Product identifier  | %    | Classification (GHS-US) |
|---------------------------|---------------------|------|-------------------------|
| Octavinyt8-silsesquioxane | (CAS No) 69655-76-1 | > 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 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.  |

# OCTAVINYL-T8-SILSESQUIOXANE

## Safety Data Sheet

- 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.
- 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 : May cause irritation to the respiratory tract. Overexposure may cause: Coughing. Headache. Nausea.
- Symptoms/injuries after skin contact : May cause 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. 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 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 contact with skin and eyes. Do not breathe dust.

## 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 : 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 contact with skin and eyes. Do not breathe dust. Provide local exhaust or general room ventilation to minimize exposure to dust.
- 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.
- 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

| Octavinyloctane (69655-76-1) |                                     |                                      |
|------------------------------|-------------------------------------|--------------------------------------|
| USA OSHA                     | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup> (nuisance dust) |

### 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.

# OCTAVINYLTETRA-SILSESQUIOXANE

## Safety Data Sheet

|                          |   |
|--------------------------|---|
| Hand protection          | : Neoprene or nitrile rubber gloves.  |
| Eye protection           | : Safety glasses. 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 dust and mist (orange cartridge) respirator. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                         |
|---|-------------------------|
| Physical state                              | : Solid                 |
| Appearance                                  | : Solid.                |
| Molecular mass                              | : 633.04 g/mol          |
| Color                                       | : White.                |
| Odor  | : No data available     |
| Odor threshold                              | : No data available     |
| Refractive index                            | : No data available     |
| pH  | : No data available     |
| Relative evaporation rate (butyl acetate=1) | : No data available     |
| Melting point                               | : > 273 °C (decomposes) |
| Freezing point                              | : No data available     |
| Boiling point                               | : No data available     |
| Flash point                                 | : > 200 °C              |
| Auto-ignition temperature                   | : No data available     |
| Decomposition temperature                   | : No data available     |
| Flammability (solid, gas)                   | : No data available     |
| Vapor pressure                              | : No data available     |
| Relative vapor density at 20 °C             | : No data available     |
| Relative density                            | : 1.35                  |
| VOC content                                 | : < 2 %                 |
| Solubility                                  | : Insoluble in 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     |
| 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 in sealed containers.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Heat. Open flame. Sparks.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

At elevated temperatures above 273°C forms: Organic acid vapors. Silicon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                           |                  |
|---------------------------|------------------|
| Acute toxicity            | : Not classified |
| Skin corrosion/irritation | : Not classified |

# OCTAVINYLT8-SILSESQUIOXANE

## Safety Data Sheet

|  |  |
|--|--|
| Serious eye damage/irritation                      | : Not classified   |
| 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. Overexposure may cause: Coughing. Headache. Nausea. |
| Symptoms/injuries after skin contact               | : May cause 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

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

|                                |   |
|--------------------------------|---|
| Waste disposal recommendations | : May be incinerated. 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

|  |   |
|--|---|
| <b>OCTAVINYLT8-SILSESQUIOXANE (69655-76-1)</b> |   |
| 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. |

### Octavinylt8-silsesquioxane (69655-76-1)

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

# OCTAVINYL-T8-SILSESQUIOXANE

## Safety Data Sheet

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

#### OCTAVINYL-T8-SILSESQUIOXANE(69655-76-1)

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

#### Octavinyl-t8-silsesquioxane (69655-76-1)

| 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 | 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.

Date of issue: 12/05/2014

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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