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

1.1. Product identifier

- **Product form**: Substance
- **Physical state**: Solid
- **Substance name**: (3,3,3-TRIFLUOROPROPYL)METHYLCYCLOTRISILOXANE
- **Product code**: SIT8366.0
- **Formula**: C12H21F9O3Si3
- **Synonyms**: 1,3,5-TRIS(3,3,3-TRIFLUOROPROPYL)-1,3,5-TRIMETHYLCYCLOTRISILOXANE; TRIFLUOROPROPYLMETHYLCYCLOTRISILOXANE
- **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 - 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**
- Acute Tox. 3 (Oral) H301
- Skin Irrit. 2 H315
- Eye Irrit. 2A H319

Full text of H-phrases: see section 16

2.2. Label elements

**GHS-US labeling**
- **Hazard pictograms (GHS-US)**
- **Signal word (GHS-US)**: Danger
- **Hazard statements (GHS-US)**
  - H301 - Toxic if swallowed
  - H315 - Causes skin irritation
  - H319 - Causes serious eye irritation
- **Precautionary statements (GHS-US)**
  - P264 - Wash hands thoroughly after handling
  - P270 - Do not eat, drink or smoke when using this product
  - P280 - Wear eye protection, protective clothing, protective gloves
  - P301+P310 - If swallowed: Immediately call a doctor
  - P302+P352 - If on skin: Wash with plenty of water
  - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
  - P330 - Rinse mouth
  - P332+P313 - If skin irritation occurs: Get medical advice/attention
  - P337+P313 - If eye irritation persists: Get medical advice/attention
  - P362+P364 - Take off contaminated clothing and wash it before reuse
  - P405 - Store locked up
  - P501 - Dispose of contents/container to licensed waste disposal facility.

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

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Mono-constituent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>(3,3,3-TRIFLUOROPROPYL)METHYLCYCLOTRI SILOXANE</td>
</tr>
<tr>
<td>CAS No</td>
<td>2374-14-3</td>
</tr>
<tr>
<td>EC no</td>
<td>219-154-7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trifluoropropylmethycyclotrisiloxane</td>
<td>(CAS No) 2374-14-3</td>
<td>95-100</td>
<td>Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319</td>
</tr>
</tbody>
</table>

#### 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 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 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**: Causes skin irritation.

**Symptoms/injuries after eye contact**: Causes serious eye irritation.

**Symptoms/injuries after ingestion**: Toxic 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**: None known.

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

**Fire hazard**: Irritating fumes of hydrogen fluoride, trifluoropropionaldehyde and organic acid vapors may develop when material is exposed to 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 product 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 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.

Incompatible materials: Acids. Alcohols. Oxidizing agent. Avoid contact with anhydrous base including metal organics such as butyl lithium.

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 safety glasses. Contact lenses should not be worn.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Use NIOSH-approved dust/particulate respirator. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid

Appearance: Translucent solid.

Molecular mass: 468.55 g/mol

Color: White.

Odor: No data available

Odor threshold: No data available

Refractive index: 1.371

pH: No data available

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

Melting point: 35 °C

Freezing point: No data available

Boiling point: 95 °C @ 3 Hg

Flash point: 121 °C

Auto-ignition temperature: No data available

 Decomposition temperature: No data available

Flammability (solid, gas): No data available

Vapor pressure: < 1 mm Hg @ 25°C

Relative vapor density at 20 °C: > 1

Relative density: 1.24

Solubility: Insoluble in water.

Log Pow: No data available

Log Kow: No data available
(3,3,3-TRIFLUOROPROPYL)METHYLCYCLOTRISILOXANE
Safety Data Sheet

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
If heated in air above 150°C toxic vapors of trifluoropropionaldehyde may form.

10.4. Conditions to avoid
Heat. Open flame. Sparks.

10.5. Incompatible materials
Acids. Alcohols. Oxidizing agent. Avoid contact with anhydrous base including metal organics such as butyl lithium.

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Oral: Toxic if swallowed.

<table>
<thead>
<tr>
<th>(3,3,3-TRIFLUOROPROPYL)METHYLCYCLOTRISILOXANE (2374-14-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (oral)</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
</tr>
</tbody>
</table>

Trifluoropropylmethylcyclosiloxane (2374-14-3)

| LD50 oral rat    | 180 mg/kg |
| LD50 dermal rabbit | 25400 |
| ATE US (oral)    | 180.000 mg/kg body weight |
| ATE US (dermal)  | 25400.000 mg/kg body weight |

Skin corrosion/irritation: Causes skin irritation.
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/injuries after skin contact: Causes skin irritation.
Symptoms/injuries after eye contact: Causes serious eye irritation.
Symptoms/injuries after ingestion: Toxic 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

12.3. Bioaccumulative potential
No additional information available
### 12.4. Mobility in soil
No additional information available

### 12.5. Other adverse effects

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other adverse effects</td>
<td>This substance may be hazardous to the environment.</td>
</tr>
<tr>
<td>Effect on ozone layer</td>
<td>No additional information available</td>
</tr>
<tr>
<td>Effect on the global warming</td>
<td>No known ecological damage caused by this product.</td>
</tr>
</tbody>
</table>

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

<table>
<thead>
<tr>
<th>Waste disposal recommendations</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>May be incinerated. Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.</td>
</tr>
<tr>
<td></td>
<td>Ecology - avoid release to the environment.</td>
</tr>
</tbody>
</table>

### SECTION 14: Transport information

#### 14.1. UN number

<table>
<thead>
<tr>
<th>UN-No.(DOT)</th>
<th>2811</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT NA no.</td>
<td>UN2811</td>
</tr>
</tbody>
</table>

#### 14.2. UN proper shipping name

<table>
<thead>
<tr>
<th>Proper Shipping Name (DOT)</th>
<th>Toxic solids, organic, n.o.s.</th>
</tr>
</thead>
<tbody>
<tr>
<td>(3,3,3-TRIFLUOROPROPYL)METHYLCYCLOTIRISILOXANE</td>
<td></td>
</tr>
<tr>
<td>Transport hazard class(es) (DOT)</td>
<td>6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132</td>
</tr>
<tr>
<td>Hazard labels (DOT)</td>
<td>6.1 - Poison</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DOT Symbols</th>
<th>G - Identifies PSN requiring a technical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group (DOT)</td>
<td>III - Minor Danger</td>
</tr>
<tr>
<td>DOT Packaging Exceptions (49 CFR 173.xxx)</td>
<td>153</td>
</tr>
<tr>
<td>DOT Packaging Non Bulk (49 CFR 173.xxx)</td>
<td>213</td>
</tr>
<tr>
<td>DOT Packaging Bulk (49 CFR 173.xxx)</td>
<td>240</td>
</tr>
</tbody>
</table>

### 14.3. Additional Information

| Other information | No supplementary information available. |

#### 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) | 100 kg |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | 200 kg |

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

**Trifluoropropylmethylocyclotrisiloxane (2374-14-3)**

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

#### 15.2. International regulations

**Trifluoropropylmethylocyclotrisiloxane (2374-14-3)**

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on the IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on INSQ (Mexican national Inventory of Chemical Substances)
(3,3,3-TRIFLUOROPROPYL)METHYLCYCLOTIRISILOXANE
Safety Data Sheet

15.3. US State regulations

<table>
<thead>
<tr>
<th>(3,3,3-TRIFLUOROPROPYL)METHYLCYCLOTIRISILOXANE(2374-14-3)</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Developmental Toxicity</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Trifluoropropylmethylicyclotrisiloxane (2374-14-3)</th>
<th>U.S. - California - Proposition 65 - Carcinogens List</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - Proposition 65 - Developmental Toxicity</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Female</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>U.S. - California - Proposition 65 - Reproductive Toxicity - Male</td>
<td>No</td>
<td>Non-significant risk level (NSRL)</td>
</tr>
</tbody>
</table>

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:
- Acute Tox. 3 (Oral) Acute toxicity (oral) Category 3
- Eye Irrit. 2A Serious eye damage/eye irritation Category 2A
- Skin Irrit. 2 Skin corrosion/irritation Category 2
- H301 Toxic if swallowed
- H315 Causes skin irritation
- H319 Causes serious eye irritation

HMIS III Rating
- Health: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
- Flammability: 1 Slight Hazard
- Physical: 0 Minimal Hazard

Prepared by safety and environmental affairs.

Date of issue: 11/17/2014 Revision date: 09/28/2015 Version: 2.0

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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