### SECTION 1: Identification

#### 1.1. Identification

- **Product name**: 3-[2-{ACETOXY(POLYETHYLENEOXY)PROPYL}]HEPTAMETHYLTRISILOXANE, tech-95
- **Product code**: SIA0075.0
- **Product form**: Substance
- **Physical state**: Liquid
- **Synonyms**: POLYALKYLENEOXIDE MODIFIED POLYDIMETHYLSILOXANE
- **Chemical family**: ORGANOSILOXANE

#### 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 - 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  
  - Serious eye damage/eye irritation Category 2A

- **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.  
  - 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 IN EYES: Get medical advice/attention.  
  - P370+P378 - In case of fire: Use water spray or fog, foam, carbon dioxide, dry chemical to extinguish.  
  - P403+P235 - Keep in a cool place  
  - P501 - Dispose of contents/container to licensed waste disposal facility.

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

**Signal word**: Warning

**Hazard pictograms (GHS US)**: ![Warning]

- **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 EYES: Get medical advice/attention.  
  - P370+P378 - In case of fire: Use water spray or fog, 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**: Multi-constituent
- **Name**: 3-[2-{ACETOXY(POLYETHYLENEOXY)PROPYL}]HEPTAMETHYLTRISILOXANE, tech-95
3-{2-[ACETOXY(POLYETHYLENEOXY)PROPYL]}HEPTAMETHYLTRISILOXANE, tech-95
Safety Data Sheet

CAS-No.: 125997-17-3

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-{2-[Acetoxy(polyethyleneoxy)propyl]heptamethyltrisiloxane}</td>
<td>(CAS-No.) 125997-17-3</td>
<td>&gt; 95</td>
<td>Flam. Liq. 4, H227</td>
</tr>
<tr>
<td>Allyloxy(polyethylene oxide), methyl ether</td>
<td>(CAS-No.) 27252-80-8</td>
<td>&lt; 5</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>

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. IF exposed or concerned: Get medical advice/attention.

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.

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: 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


Unsuitable extinguishing media: Do not use straight streams.

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 elevated temperatures or open flame.

5.3. Special protective equipment and precautions for fire-fighters

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

General measures: Remove ignition sources. Use special care to avoid static electric charges.

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.
3-{2-[ACETOXY(POLYETHYLENEOXY)PROPYL]HEPTAMETHYLTRISILOXANE, tech-95
Safety Data Sheet

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
Precautions for safe handling : Avoid all eye and skin contact and do not breathe vapor and mist. Take precautionary measures against static discharge. Use only non-sparking tools.
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
Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Keep container tightly closed.
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. Viscous.
Molecular mass : No data available
Color : Pale yellow.
Odor : No data available
Odor threshold : No data available
Refractive index : 1.4461
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : < 0 °C
Boiling point : > 205 °C
Flash point : 79 °C
Auto-ignition temperature : No data available
3-{2-[ACETOXY(POLYETHYLENEOXY)PROPYL]}HEPTAMETHYLTRISILOXANE, tech-95
Safety Data Sheet

| Decomposition temperature : No data available |
|-----------------------------|---------------------------------------------|
| Flammability : Combustible liquid |
| Vapor pressure : < 5 mm Hg |
| Relative vapor density at 20 °C : > 1 |
| Relative density : 1.032 |
| % Volatiles : < 5 % |
| Solubility : Soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) : No data available |
| Partition coefficient n-octanol/water (Log Kow) : No data available |
| Viscosity, kinematic : 30 cSt |
| 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.

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

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

Allyloxy(polyethylene oxide), methyl ether (27252-80-8)
LD50 oral rat > 500 mg/kg
ATE US (oral) 500 mg/kg body weight

3-{2-[Acetoxy(polyethyleneoxy)propyl]heptamethyltrisiloxane (125997-17-3)
LD50 oral rat > 2000 mg/kg

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
None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

Reproductive toxicity : Not classified
STOT-single exposure : Not classified
3-{2-[ACETOXY(POLYETHYLENEOXY)PROPYL]}HEPTAMETHYLTRISILOXANE, tech-95
Safety Data Sheet

STOT-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 : May be harmful 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
Effect on the ozone layer : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods
Sewage disposal recommendations : Do not dispose of waste into sewer.
Product/Packaging disposal recommendations : Incinerate. 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 (DOT) : NA1993 Combustible liquid, n.o.s. (3-{2-[ACETOXY(POLYETHYLENEOXY)PROPYL]}HEPTAMETHYLTRISILOXANE), 3, III
Proper Shipping Name (DOT) : (3-{2-[ACETOXY(POLYETHYLENEOXY)PROPYL]}HEPTAMETHYLTRISILOXANE)
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. Therefore, no UN# is applicable to this product.

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.
3-{2-[ACETOXY(POLYETHYLENEOXY)PROPYL]}HEPTAMETHYLTRISILOXANE, tech-95
Safety Data Sheet

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

SECTION 15: Regulatory information
15.1. US Federal regulations
3-{2-[ACETOXY(POLYETHYLENEOXY)PROPYL]}HEPTAMETHYLTRISILOXANE, tech-95 (125997-17-3)

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No.</th>
<th>Listing</th>
<th>Commercial status</th>
<th>Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allyloxy(polyethylene oxide), methyl ether</td>
<td>27252-80-8</td>
<td>Present</td>
<td>Active</td>
<td></td>
</tr>
<tr>
<td>3-[Acetoxy(polyethyleneoxy)propyl]heptamethyltrisiloxane</td>
<td>125997-17-3</td>
<td>Not present</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

15.2. International regulations

CANADA

Allyloxy(polyethylene oxide), methyl ether (27252-80-8)

Listed on the Canadian DSL (Domestic Substances List)

3-[Acetoxy(polyethyleneoxy)propyl]heptamethyltrisiloxane (125997-17-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations
No additional information available

National regulations

Allyloxy(polyethylene oxide), methyl ether (27252-80-8)

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
Listed on KECLIKECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam National Chemical Inventory)
Listed on TECI (Thailand Existing Chemicals Inventory)

3-[Acetoxy(polyethyleneoxy)propyl]heptamethyltrisiloxane (125997-17-3)

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 NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the TCSI (Taiwan Chemical Substance Inventory)
Listed on the NCI (Vietnam National Chemical Inventory)

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

SECTION 16: Other information
Full text of H-phrases:

<table>
<thead>
<tr>
<th>H227</th>
<th>Combustible liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
</tbody>
</table>

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.

Issue date: 08/18/2015 Revision date: 10/12/2022 Version: 1.3

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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