### SECTION 1: Identification

1.1. Identification

- **Product name**: [METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE, tech-90
- **Product code**: SIM6492.6
- **Product form**: Substance
- **Physical state**: Liquid
- **Formula**: CH₃O(CH₂CH₂O)₆-9(CH₂)₃(CH₃)[OSi(CH₃)₃]₂Si
- **Synonyms**: (TRIMETHYLSILOXY)DISILOXANYLPROPYL ETHER POLYALKYLENEOXIDE MODIFIED POLYDIMETHYLSILOXANE GLYCOLS, POLYETHYLENE, METHYL

<table>
<thead>
<tr>
<th>Chemical family</th>
<th>ORGANOSILOXANE</th>
</tr>
</thead>
</table>

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**
  - Acute toxicity (inhalation:dust,mist) Category 4: H332 - Harmful if inhaled
  - Serious eye damage/eye irritation Category 2: H319 - Causes serious eye irritation
  - Hazardous to the aquatic environment – Acute Hazard Category 2: H401 - Toxic to aquatic life

- **Full text of H statements**: see section 16

2.2. GHS Label elements, including precautionary statements

- **GHS US labeling**

<table>
<thead>
<tr>
<th>Hazard pictograms (GHS US)</th>
<th>![Warning]</th>
</tr>
</thead>
</table>

- **Signal word (GHS US)**: Warning
- **Hazard statements (GHS US)**: H319 - Causes serious eye irritation, H332 - Harmful if inhaled, H401 - Toxic to aquatic life

2.3. Hazards not otherwise classified (HNOC)

- **No additional information available**
2-[METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE, tech-90
Safety Data Sheet

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mono-constituent</td>
<td>2-[METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE, tech-90</td>
<td>27306-78-1</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>Dimethylsiloxane-ethylene oxide block copolymer</td>
<td>(CAS-No.) 27306-78-1</td>
<td>&gt; 95</td>
<td>Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2A, H319 Aquatic Acute 2, H401</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.

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: Harmful if inhaled. May cause irritation to the respiratory tract.
Symptoms/effects after skin contact: May cause skin irritation. May be harmful in contact with skin.
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: None known.

5.2. Specific hazards arising from the chemical

Fire hazard: 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: Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

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

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"
2-[METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE, tech-90

Safety Data Sheet

6.2. Environmental precautions
Avoid release to the environment. 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.

Methods for cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it.

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. Use only outdoors or in a well-ventilated area.

Hygiene measures: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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.

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: 559 – 691 g/mol
Color: Pale yellow.
Odor: No data available
Odor threshold: No data available
Refractive index: 1.4416
pH: No data available
Relative evaporation rate (butyl acetate=1): No data available
Melting point: 0 °C
Freezing point: No data available
Boiling point: > 205 °C
2-[METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE, tech-90
Safety Data Sheet

Flash point : 116 °C
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability : No data available
Vapor pressure : < 5 mm Hg
Relative vapor density at 20 °C : No data available
Relative density : 1.007
% Volatiles : < 3 %
Solubility : Soluble in water.
Partition coefficient n-octanol/water (Log Pow) : No data available
Partition coefficient n-octanol/water (Log Kow) : > 3.29 >3.28; >3.60
Viscosity, kinematic : 22 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) : Harmful if inhaled.

2-[METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE, tech-90 (27306-78-1)
ATE US (dust, mist) : 2.105 mg/l/4h

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

<table>
<thead>
<tr>
<th>LD50 oral rat (mg/kg)</th>
<th>ATE US (oral) (mg/kg body weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 500</td>
<td>500</td>
</tr>
</tbody>
</table>

Dimethylsiloxane-ethylene oxide block copolymer (27306-78-1)

<table>
<thead>
<tr>
<th>LD50 oral rat (µl/kg)</th>
<th>ATE US (oral) (mg/kg body weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4920</td>
<td>500</td>
</tr>
</tbody>
</table>

LD50 dermal rat (mg/kg) : > 2000
LC50 Inhalation - Rat (g/m³) : 2 (Exposure time: 4 h)
ATE US (oral) (mg/kg body weight) : 4920
ATE US (vapors) (mg/l/4h) : 2
ATE US (dust, mist) (mg/l/4h) : 2

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : Not classified
2-[METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE, tech-90
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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

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Symptoms/effects after inhalation : Harmful if inhaled. May cause irritation to the respiratory tract.
Symptoms/effects after skin contact : May cause skin irritation. May be harmful in contact with skin.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : May be harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Dimethylsiloxane-ethylene oxide block copolymer (27306-78-1)

<table>
<thead>
<tr>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 - Fish [1]</td>
<td>6.8 mg/l (Zebra Fish)</td>
</tr>
<tr>
<td>EC50 - Crustacea [1]</td>
<td>25 mg/l (Daphnia magna)</td>
</tr>
<tr>
<td>ErC50 algae</td>
<td>32 mg/l (Pseudokirchneriella subcapitata)</td>
</tr>
</tbody>
</table>

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
UN-No.(DOT) : 3082
DOT NA No : UN3082

14.2. UN proper shipping name
Transport document description (DOT) : UN3082 Environmentally hazardous substances, liquid. n.o.s. (2-[METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE), 9, III

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s. (2-[METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE)

Class (DOT) : 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140

Packing group (DOT) : III - Minor Danger
2-[METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE, tech-90
Safety Data Sheet

Hazard labels (DOT) : 9 - Class 9 (Miscellaneous dangerous materials)

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Packaging Exceptions (49 CFR 173.xxx) : 155
DOT Symbols : G - Identifies PSN requiring a technical name

14.3. Additional information
Emergency Response Guide (ERG) Number : 171
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) : No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No limit

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):

<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>Dimethylsiloxane-ethylene oxide block copolymer</td>
<td>27306-78-1</td>
<td>Present</td>
<td>Active</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)

Dimethylsiloxane-ethylene oxide block copolymer (27306-78-1)
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 KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philipines 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)
2-[METHOXY(POLYETHYLENEOXY)6-9PROPYL]HEPTAMETHYLTRISILOXANE, tech-90
Safety Data Sheet

**Dimethylsiloxane-ethylene oxide block copolymer (27306-78-1)**
- 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)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)
- Listed on TECI (Thailand Existing Chemicals 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>H302</th>
<th>Harmful if swallowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</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: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
- 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:** 12/08/2014  
**Revision date:** 10/12/2022  
**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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