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

1.1. Product identifier

Product form : Substance
Physical state : Liquid
Substance name : METHACRYLOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE
Product code : DMS-R05
Synonyms : METHACRYLATE FUNCTIONAL SILICONE OIL; POLY(DIMETHYLSILOXANE), METHACRYLOXYPROPYL TERMINATED
Chemical family : METHACRYLATESILOXANE

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

1.2.2. Uses advised against

No additional information available

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

GELEST INC.
Fritz-Klatte-Strasse 8
65933 Frankfurt
Germany
T +49 (0) 69 3535106 - F +49 (0) 69 3535106-501 - (M-F): 8:00 AM - 4:00 PM
info@gelestde.com - www.gelestde.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 according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation, Category 2
H319

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) : GHS07

Signal word (CLP) : Warning
Hazard statements (CLP) : H319 - Causes serious eye irritation.
Precautionary statements (CLP) : 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.
2.3. Other hazards

Other hazards not contributing to the classification: Low molecular weight methacrylates have been found to sensitize certain individuals, resulting in severe itching and hives.

SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methacryloxypropyl terminated polydimethylsiloxane</td>
<td>[CAS-No.] 58130-03-3</td>
<td>&gt; 95</td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>2,6-Di-tert-butyl-p-cresol</td>
<td>(CAS-No.) 128-37-0</td>
<td>&lt; 1</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td>Hydroquinone monomethyl ether</td>
<td>(CAS-No.) 150-76-5</td>
<td>&lt; 0.05</td>
<td>Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>

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 person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact: Wash with plenty of 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, both acute and delayed

Symptoms/effects after inhalation: No information available.

Symptoms/effects after skin contact: May cause skin irritation.

Symptoms/effects after eye contact: Causes serious eye irritation.

Symptoms/effects 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


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 vapour 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 vapour 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. Store < 5°C.

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Country</th>
<th>Exposure Limit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-Di-tert-butyl-p-cresol (128-37-0)</td>
<td>Austria</td>
<td>MAK (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Belgium</td>
<td>Limit value (mg/m³)</td>
<td>2 mg/m³ (aerosol and vapor)</td>
</tr>
<tr>
<td></td>
<td>Bulgaria</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Bulgaria</td>
<td>OEL STEL (mg/m³)</td>
<td>50 mg/m³</td>
</tr>
<tr>
<td></td>
<td>France</td>
<td>VME (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Germany</td>
<td>TRGS 900 Occupational exposure limit value (mg/m³)</td>
<td>10 mg/m³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction)</td>
</tr>
<tr>
<td></td>
<td>Greece</td>
<td>OEL TWA (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

Hydroquinone monomethyl ether (150-76-5)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Country</th>
<th>Exposure Limit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Austria</td>
<td>MAK (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Austria</td>
<td>MAK Short time value (mg/m³)</td>
<td>10 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Belgium</td>
<td>Limit value (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>France</td>
<td>VME (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Greece</td>
<td>OEL TWA (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Italy - Portugal - USA ACGIH</td>
<td>ACGIH TWA (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Spain</td>
<td>VLA-ED (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Denmark</td>
<td>Grænseværdie (langvarig) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ireland</td>
<td>OEL (8 hours ref) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Ireland</td>
<td>OEL (15 min ref) (mg/m3)</td>
<td>15 mg/m³ (calculated)</td>
</tr>
<tr>
<td></td>
<td>Norway</td>
<td>Grenseverdier (AN) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Norway</td>
<td>Grenseverdier (Korttidsverdi) (mg/m3)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Poland</td>
<td>NDS (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Canada (Quebec)</td>
<td>VEMP (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Australia</td>
<td>TWA (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Portugal</td>
<td>OEL TWA (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>
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

**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>380 - 550 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>Pale yellow,</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.448</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Melting point</td>
<td>&lt; -60 °C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 205 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 110 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>&gt; 1</td>
</tr>
</tbody>
</table>
## Relative density
- 0.97

## % Volatiles
- < 5 %

## Solubility
- Insoluble in water.

## Log Pow
- No data available

## Log Kow
- No data available

## Viscosity, kinematic
- 4 - 6 cSt

## Viscosity, dynamic
- No data available

## Explosive properties
- No data available

## Oxidising 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
Non-hazardous polymerization may occur.

#### 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

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Not classified</th>
</tr>
</thead>
</table>

**Hydroquinone monomethyl ether (150-76-5)**

| LD50 oral rat | 1600 mg/kg |

**2,6-Di-tert-butyl-p-cresol (128-37-0)**

| LD50 oral rat | 890 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| ATE CLP (oral) | 890 mg/kg bodyweight |

| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Causes serious eye irritation. |
| Respiratory or skin sensitisation | Not classified |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |

**2,6-Di-tert-butyl-p-cresol (128-37-0)**

| IARC group | 3 - Not classifiable |

| Reproductive toxicity | Not classified |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |
| Aspiration hazard | Not classified |

**Potential adverse human health effects and symptoms**

| Low molecular weight methacrylates have been found to sensitize certain individuals, resulting in severe itching and hives. |
| May cause skin irritation. |
| Causes serious eye irritation. |
| No information available. |
| Expert judgment |
## SECTION 12: Ecological information

### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Acute aquatic toxicity</th>
<th>Chronic aquatic toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not classified</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

**Hydroquinone monomethyl ether (150-76-5)**

| LC50 fish 1 | 84.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 fish 2 | 28.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

**Hydroquinone monomethyl ether (150-76-5)**

<table>
<thead>
<tr>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.34</td>
</tr>
</tbody>
</table>

**2,6-Di-tert-butyl-p-cresol (128-37-0)**

| BCF fish 1 | 230 - 2500 |
| Log Pow    | 4.17       |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Product/Packaging 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

- In accordance with ADR / RID / IMDG / IATA / ADN

<table>
<thead>
<tr>
<th>UN-No. (ADR)</th>
<th>Not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-No. (IMDG)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>UN-No. (IATA)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>UN-No. (ADN)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>UN-No. (RID)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### 14.2. UN proper shipping name

- Proper Shipping Name (ADR): Not applicable
- Proper Shipping Name (IMDG): Not applicable
- Proper Shipping Name (IATA): Not applicable
- Proper Shipping Name (ADN): Not applicable
- Proper Shipping Name (RID): Not applicable

### 14.3. Transport hazard class(es)

- **ADR**
  - Transport hazard class(es) (ADR): Not applicable

- **IMDG**
  - Transport hazard class(es) (IMDG): Not applicable

- **IATA**
  - Transport hazard class(es) (IATA): Not applicable

- **ADN**
  - Transport hazard class(es) (ADN): Not applicable
RID
Transport hazard class(es) (RID) : Not applicable

14.4. Packing group
Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user
- Overland transport
  No data available
- Transport by sea
  No data available
- Air transport
  No data available
- Inland waterway transport
  No data available
- Rail transport
  No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
No REACH Annex XVII restrictions
METHACRYLOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE is not on the REACH Candidate List
METHACRYLOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE is not on the REACH Annex XIV List
METHACRYLOXYPROPYL TERMINATED POLYDIMETHYLSILOXANE is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

% Volatiles : < 5 %

15.1.2. National regulations

Germany
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands
SZW-list van kankerverwekkende stoffen : The substance is not listed
SZW-list van mutagene stoffen : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed
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

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitisation, Category 1</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

SDS EU (REACH Annex II) - Custom

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

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