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

<table>
<thead>
<tr>
<th>1.1. Product identifier</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product form</strong></td>
<td>Substance</td>
</tr>
<tr>
<td><strong>Physical state</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Substance name</strong></td>
<td>DIMETHYLSILOXANE-(80% ETHYLENE OXIDE) BLOCK COPOLYMER</td>
</tr>
<tr>
<td><strong>Product code</strong></td>
<td>DBE-814</td>
</tr>
<tr>
<td><strong>Synonyms</strong></td>
<td>POLYALKYLENEOXIDE MODIFIED POLYDIMETHYLSILOXANE SILOXANES and SILICONES, 3-HYDROXYPROPYL METHYL, ETHER with POLYETHYLENE GLYCOL MONOMETHYL ETHER</td>
</tr>
<tr>
<td><strong>Chemical family</strong></td>
<td>ORGANOSILOXANE</td>
</tr>
<tr>
<td><strong>REACH authorisation exemptions</strong></td>
<td>Exempted from REACH registration</td>
</tr>
</tbody>
</table>

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 3535106-500 - 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]

- **Acute toxicity (oral), Category 4**
  - H302
- **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)**: ![Hazard Pictogram]

**Signal word (CLP)**: Warning

**Hazard statements (CLP)**:
- H302 - Harmful if swallowed.
- H319 - Causes serious eye irritation.
### DIMETHYLSILOXANE-(80% ETHYLENE OXIDE) BLOCK COPOLYMER

**Safety Data Sheet**

| Precautionary statements (CLP) | P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
| | P264 - Wash hands thoroughly after handling.  
| | P330 - Rinse mouth.  
| | P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell.  
| | 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 eye irritation persists: Get medical advice/attention. |

### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

<table>
<thead>
<tr>
<th>Substance type</th>
<th>Polymer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>DIMETHYLSILOXANE-(80% ETHYLENE OXIDE) BLOCK COPOLYMER</td>
</tr>
<tr>
<td>CAS-No.</td>
<td>117272-76-1</td>
</tr>
</tbody>
</table>

<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>Dimethylsiloxane-ethylene oxide block copolymer</td>
<td>(CAS-No.) 117272-76-1</td>
<td>95 - 100</td>
<td>Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>Allyloxy(polyethylene oxide), methyl ether</td>
<td>(CAS-No.) 27252-80-8 (EC-No.) 608-068-9</td>
<td>0 - 5</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>

Full text of 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 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/… 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/effects after inhalation | 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 | Swallowing a small quantity of this material will result in serious health hazard. Harmful 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

| 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 | 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 vapour 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".

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.

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. Use only in well ventilated areas.
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.

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. 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: 1000 g/mol
**DIMETHYLSILOXANE-(80% ETHYLENE OXIDE) BLOCK COPOLYMER**

**Safety Data Sheet**

<table>
<thead>
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<th align="left">: Pale yellow.</th>
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</thead>
<tbody>
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<tr>
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<tr>
<td><strong>Log Kow</strong></td>
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<td><strong>Viscosity, dynamic</strong></td>
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<td><strong>Explosive properties</strong></td>
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<td><strong>Oxidising properties</strong></td>
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<tr>
<td><strong>Explosive limits</strong></td>
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</table>

**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 : Harmful if swallowed.

DIMETHYLSILOXANE-(80% ETHYLENE OXIDE) BLOCK COPOLYMER (117272-76-1)

ATE CLP (oral) 1329.229 mg/kg bodyweight

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

LD50 oral rat > 500 mg/kg

ATE CLP (oral) 500 mg/kg bodyweight

Dimethylsiloxane-ethylene oxide block copolymer (117272-76-1)

LD50 oral rat 1533 mg/kg (male and female)

LD50 dermal rabbit > 2000 mg/kg (male and female)

ATE CLP (oral) 1533 mg/kg bodyweight

Skin corrosion/irritation : Not classified

DIMETHYLSILOXANE-(80% ETHYLENE OXIDE) BLOCK COPOLYMER
Safety Data Sheet

Serious eye damage/irritation: Causes serious eye irritation. OECD-Guideline 405 (Acute Eye irritation/Corrosion) (Rabbit): Slightly irritating.

Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified

Amaris- Test: negative
This material was negative in a bacterial reverse (Salmonella typhimurium/Escherichia coli)mutation assay. This material was not mutagenic in thre mammalian test systems including the Chinese Hamster Ovary (CHO)/HGPRT gene mutation assay, a micronucleus cytogenetic assay in mice, and an in vitro mammalian cytogenetic test.

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
In a repeated skin application study with rats, this material caused moderate skin irritation which resolved during a post application recovery period. There was no evidence for percutaneous cumulative or specific organ toxicity, and no effect on male or female reproductive systems. This material did not produce sensitization in guinea pigs.Findings from a 14-day dietary feeding study with rats show that high dosage repeated ingestion of this material causes reversible adverse effects on the male and female reproductive tracts. Additional effects seen include increased liver weight, altered blood cytology/chemistry, and thyroid enlargement (primarily hypertrophy, with some hyperplasia). Evidence of partial or complete recovery was found over a 28-day recovery period.

Aspiration hazard: Not classified

Symptoms/effects after inhalation: 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: Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity
Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Not classified

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. 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
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.
Ecology - waste materials: Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number
In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR): Not applicable
UN-No. (IMDG): Not applicable
14.2. UN proper shipping name

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

### 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

<table>
<thead>
<tr>
<th>Packing group (ADR)</th>
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</thead>
<tbody>
<tr>
<td>Packing group (IMDG)</td>
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</tr>
<tr>
<td>Packing group (IATA)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group (ADN)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group (RID)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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

DIMETHYLSILOXANE-(80% ETHYLENE OXIDE) BLOCK COPOLYMER is not on the REACH Candidate List
DIMETHYLSILOXANE-(80% ETHYLENE OXIDE) BLOCK COPOLYMER

Safety Data Sheet

DIMETHYLSILOXANE-(80% ETHYLENE OXIDE) BLOCK COPOLYMER is not on the REACH Annex XIV List

% Volatiles : 3 %

15.1.2. National regulations

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

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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

<table>
<thead>
<tr>
<th>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</th>
</tr>
</thead>
</table>

Other information : Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral), Category 4</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Eye Irrit. 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation, Category 2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>H302</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Harmful if swallowed.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>H319</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Causes serious eye irritation.</td>
<td></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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