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

#### 1.1. Product identifier

- **Product form**: Substance
- **Physical state**: Solid
- **Substance name**: ALLYLOXY(POLYETHYLENE OXIDE) (35-50 EO)
- **Product code**: ENEA0264
- **Synonyms**: ALLYLOXY PEG, ALLYL ALCOHOL ETHOXYLATE, POLYETHYLENE OXIDE MONOALLYL ETHER
- **Chemical family**: POLYETHER

#### 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]**

- Not classified

**Adverse physicochemical, human health and environmental effects**

- No additional information available

#### 2.2. Label elements

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

- No labelling applicable

#### 2.3. Other hazards

- No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

- **Substance type**: Mono-constituent
- **Name**: ALLYLOXY(POLYETHYLENE OXIDE) (35-50 EO)
- **CAS-No.**: 27274-31-3
## Name

**Polyethylene oxide monoallyl ether**

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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**

- No information available.

**Symptoms/effects after skin contact**

- May cause skin irritation.

**Symptoms/effects after eye contact**

- May cause eye irritation.

**Symptoms/effects after ingestion**

- May be 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

**Suitable 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 product enters sewers or public waters.
ALLYLOXY(POLYETHYLENE OXIDE) (35-50 EO)
Safety Data Sheet

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: 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. Avoid dust formation. Do not breathe dust. 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

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<thead>
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**ALLYLOXY(POLYETHYLENE OXIDE) (35-50 EO)**

**Safety Data Sheet**

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ALLYLOXY(POLYETHYLENE OXIDE) (35-50 EO)
Safety Data Sheet

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 dust and mist (teal cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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ALLYLOXY(POLYETHYLENE OXIDE) (35-50 EO)
Safety Data Sheet

**Melting point**: 42 - 48 °C
**Freezing point**: No data available
**Boiling point**: No data available
**Flash point**: > 150 °C
**Auto-ignition temperature**: No data available
**Decomposition temperature**: No data available
**Flammability (solid, gas)**: No data available
**Vapour pressure**: No data available
**Relative vapour density at 20 °C**: No data available
**Relative density**: 1.1
**Solubility**: Insoluble in water.
**Log Pow**: No data available
**Log Kow**: No data available
**Viscosity, kinematic**: 24.5 - 28 cSt @ 100°C
**Viscosity, dynamic**: No data available
**Explosive properties**: No data available
**Oxidising properties**: No data available
**Explosive limits**: No data 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**
Organic acid vapors.

**SECTION 11: Toxicological information**

11.1. **Information on toxicological effects**
Acute toxicity: Not classified

**Allyl alcohol (107-18-6)**
- LD50 oral rat: 64 mg/kg
- LD50 oral mouse: 96 mg/kg
- LD50 dermal rabbit: 89 mg/kg
- LC50 inhalation rat (mg/l): 0.391 mg/l/4h
- ATE CLP (oral): 64 mg/kg bodyweight
- ATE CLP (dermal): 45 mg/kg bodyweight
- ATE CLP (vapours): 1.76 mg/l/4h
- ATE CLP (dust,mist): 1.76 mg/l/4h

**Polyethylene oxide monoallyl ether (27274-31-3)**
- LD50 oral rat: > 2000 mg/kg

**Skin corrosion/irritation**: Not classified
**Serious eye damage/irritation**: Not classified
**Respiratory or skin sensitisation**: 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
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified
Symptoms/effects after inhalation: No information available.
Symptoms/effects after skin contact: May cause skin irritation.
Symptoms/effects after eye contact: May cause eye irritation.
Symptoms/effects after ingestion: May be harmful if swallowed.

SECTION 12: Ecological information

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

<table>
<thead>
<tr>
<th>Allyl alcohol (107-18-6)</th>
<th>LC50 fish 1</th>
<th>0.28 - 0.37 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LC50 fish 2</td>
<td>0.32 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
Allyl alcohol (107-18-6)

<table>
<thead>
<tr>
<th>BCF fish 1</th>
<th>(no bioaccumulation expected)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>0.17</td>
</tr>
</tbody>
</table>

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
Other adverse effects: This substance may be hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Sewage disposal recommendations: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations: 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
UN-No. (IATA): Not applicable
UN-No. (ADN): Not applicable
UN-No. (RID): Not applicable

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
ALLYLOXY(POLYETHYLENE OXIDE) (35-50 EO)
Safety Data Sheet

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
Not applicable
- Transport by sea
Not applicable
- Air transport
Not applicable
- Inland waterway transport
Not applicable
- Rail transport
Not applicable

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
ALLYLOXY(POLYETHYLENE OXIDE) (35-50 EO) is not on the REACH Candidate List
ALLYLOXY(POLYETHYLENE OXIDE) (35-50 EO) is not on the REACH Annex XIV List
ALLYLOXY(POLYETHYLENE OXIDE) (35-50 EO) 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.

15.1.2. National regulations

Germany
Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to VwVwS, Annex 3; ID No. 3686)
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-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

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; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal) Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation) Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral) Acute toxicity (oral), Category 3
Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Category 2
Flam. Liq. 2 Flammable liquids, Category 2
Skin Irrit. 2 Skin corrosion/irritation, Category 2
STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.

SDS EU (REACH Annex II) - Custom

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