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

1.1. Product identifier

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product form</td>
<td>Substance</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Substance name</td>
<td>ALLYL GLYCIDYL ETHER</td>
</tr>
<tr>
<td>Product code</td>
<td>ENEA0080</td>
</tr>
<tr>
<td>Formula</td>
<td>C6H10O2</td>
</tr>
<tr>
<td>Synonyms</td>
<td>2-(ALLYLOXYMETHYL)OXIRANE</td>
</tr>
<tr>
<td></td>
<td>1,2-EPOXY-3-ALLYLOXYPROPANE</td>
</tr>
<tr>
<td></td>
<td>([2-PROPENYLOXY]METHYL)OXIRANE</td>
</tr>
<tr>
<td></td>
<td>1-(2-PROPENYLOXY)-2,3-EPOXYPROPANE</td>
</tr>
<tr>
<td>Chemical family</td>
<td>EPOXY COMPOUND</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]

- Flammable liquids, Category 3: H226
- Acute toxicity (oral), Category 4: H302
- Acute toxicity (inhalation/vapour) Category 4: H332
- Skin corrosion/irritation, Category 2: H315
- Serious eye damage/eye irritation, Category 1: H318
- Skin sensitisation, Category 1: H317
- Germ cell mutagenicity, Category 2: H341
- Carcinogenicity, Category 2: H351
- Reproductive toxicity, Category 2: H361
- Specific target organ toxicity — Single exposure, Category 3: H335
- Respiratory tract irritation
- Hazardous to the aquatic environment — Chronic Hazard, Category 3: H412

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):

- GHS02
- GHS05
- GHS07
- GHS08

Signal word (CLP): Danger

Hazard statements (CLP):

- H226 - Flammable liquid and vapour.
- H302+H332 - Harmful if swallowed or if inhaled
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H335 - May cause respiratory irritation.
- H341 - Suspected of causing genetic defects.
- H351 - Suspected of causing cancer.
- H361 - Suspected of damaging fertility or the unborn child.
- H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP):

- P202 - Do not handle until all safety precautions have been read and understood.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 - Ground/bond container and receiving equipment.
- P273 - Avoid release to the environment.
- P310 - Immediately call a POISON CENTER or doctor/physician

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type: Mono-constituent

Name: ALLYL GLYCIDYL ETHER

CAS-No.: 106-92-3
EC-No.: 203-442-4

<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>Allyl glycidyl ether</td>
<td>(CAS-No.) 106-92-3 (EC-No.) 203-442-4 (EC Index-No.) 603-038-00-1</td>
<td>95 - 100</td>
<td>Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Repr. 2, H361f STOT SE 3, H335 Aquatic Chronic 3, H412</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. Immediately call a POISON CENTER/doctor.

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.
AllYL GLYCIDYL ETHER
Safety Data Sheet

First-aid measures after ingestion: Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation: May cause respiratory irritation. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Symptoms/effects after skin contact: Causes skin irritation.

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

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

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: Do not use straight streams.

5.2. Special hazards arising from the substance or mixture

Fire hazard: Flammable liquid and vapour. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

Explosion hazard: May form flammable/explosive vapour-air mixture.

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

General measures: Eliminate 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

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. 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

Additional hazards when processed: Keep away from heat, open flames, sparks. No smoking.

Precautions for safe handling: Avoid all eye and skin contact and do not breathe vapour and mist. Ground/bond container and receiving equipment. Provide good ventilation in process area to prevent formation of vapour. Take precautionary measures against static discharge. Use only non-sparking tools.

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

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.

Storage conditions: Keep container tightly closed. Keep in a cool place. Store locked up.

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>Allyl glycidyl ether (106-92-3)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Belgium limit value (mg/m³)</td>
<td>4.7 mg/m³</td>
</tr>
<tr>
<td>Belgium limit value (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>France VME (mg/m³)</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td>France VME (ppm)</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Greece OEL TWA (mg/m³)</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td>Greece OEL TWA (ppm)</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Greece OEL STEL (mg/m³)</td>
<td>44 mg/m³</td>
</tr>
<tr>
<td>Greece OEL STEL (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Italy - Portugal - USA ACGIH ACGIH TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>USA IDLH US IDLH (ppm)</td>
<td>50 ppm</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (TWA) (mg/m³)</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (TWA) (ppm)</td>
<td>5 ppm</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (STEL) (mg/m³)</td>
<td>44 mg/m³</td>
</tr>
<tr>
<td>USA NIOSH NIOSH REL (STEL) (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (Ceiling) (mg/m³)</td>
<td>45 mg/m³</td>
</tr>
<tr>
<td>USA OSHA OSHA PEL (Ceiling) (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Spain VLA-ED (mg/m³)</td>
<td>4.7 mg/m³</td>
</tr>
<tr>
<td>Spain VLA-ED (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Switzerland MAK (mg/m³)</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td>Switzerland MAK (ppm)</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Czech Republic Expoziční limity (PEL) (mg/m³)</td>
<td>25 mg/m³</td>
</tr>
<tr>
<td>Finland HTP-arvo (8h) (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Finland HTP-arvo (15 min) (ppm)</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Ireland OEL (8 hours ref) (mg/m³)</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td>Ireland OEL (8 hours ref) (ppm)</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Ireland OEL (15 min ref) (mg/m³)</td>
<td>44 mg/m³</td>
</tr>
<tr>
<td>Ireland OEL (15 min ref) (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Norway Grenseverdier (Takverdi) (mg/m³)</td>
<td>22 mg/m³</td>
</tr>
<tr>
<td>Norway Grenseverdier (Takverdi) (ppm)</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Poland NDS (mg/m³)</td>
<td>6 mg/m³</td>
</tr>
<tr>
<td>Poland NDSch (mg/m³)</td>
<td>12 mg/m³</td>
</tr>
<tr>
<td>Canada (Quebec) VECD (mg/m³)</td>
<td>47 mg/m³</td>
</tr>
<tr>
<td>Canada (Quebec) VECD (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Canada (Quebec) VEMP (mg/m³)</td>
<td>23 mg/m³</td>
</tr>
<tr>
<td>Canada (Quebec) VEMP (ppm)</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Australia TWA (mg/m³)</td>
<td>23 mg/m³</td>
</tr>
<tr>
<td>Australia TWA (ppm)</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Australia STEL (mg/m³)</td>
<td>47 mg/m³</td>
</tr>
<tr>
<td>Australia STEL (ppm)</td>
<td>10 ppm</td>
</tr>
<tr>
<td>Portugal OEL TWA (ppm)</td>
<td>1 ppm</td>
</tr>
<tr>
<td>Portugal OEL chemical category (PT) A4 - Not Classifiable as a Human Carcinogen</td>
<td></td>
</tr>
</tbody>
</table>
8.2. Exposure controls

Appropriate engineering controls:
Handle in an enclosing hood with exhaust 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>114.14 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>Straw.</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>1.433</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>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>-65 °C</td>
</tr>
<tr>
<td>Boiling point</td>
<td>154 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>57 °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>Flammable liquid and vapour.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>4.7 mm Hg @ 25°C</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>&gt; 1</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.962</td>
</tr>
<tr>
<td>% Volatiles</td>
<td>&lt; 3 %</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</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
Hazardous polymerization may occur at elevated temperatures.

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: Harmful if swallowed. Harmful if inhaled.

**ALLYL GLICYDYL ETHER (106-92-3)**

<table>
<thead>
<tr>
<th>ATE CLP (oral)</th>
<th>500 mg/kg bodyweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE CLP (vapours)</td>
<td>11 mg/l/4h</td>
</tr>
</tbody>
</table>

** Allyl glycidyl ether (106-92-3)**

<table>
<thead>
<tr>
<th>LD50 oral rat</th>
<th>1600 mg/kg RTECS Number: RR0875000</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 dermal rabbit</td>
<td>2550 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>3.1 mg/l (Exposure time: 8 h)</td>
</tr>
<tr>
<td>LC50 inhalation mouse</td>
<td>270 ppm/4h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: Suspected of causing genetic defects.

Ames Test: positive
Chromosome Aberration Assay: positive

Carcinogenicity: Suspected of causing cancer.

None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
2-year inhalation studies have provided limited evidence of carcinogenic activity on respiratory epithelium.

Reproductive toxicity: Suspected of damaging fertility or the unborn child.
STOT-single exposure: May cause respiratory irritation.
STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Symptoms/effects after inhalation: May cause respiratory irritation. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Symptoms/effects after skin contact: Causes skin irritation.
Symptoms/effects after eye contact: Causes serious eye irritation.
Symptoms/effects after ingestion: Harmful if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

Reason for classification: Expert judgment

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: Harmful to aquatic life.
Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Harmful to aquatic life with long lasting effects.

** Allyl glycidyl ether (106-92-3)**

| LC50 fish 1         | 30 mg/l (Goldfish) |

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. 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

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

14.1. UN number

UN-No. (ADR) : 2219
UN-No. (IMDG) : 2219
UN-No. (IATA) : 2219
UN-No. (ADN) : 2219
UN-No. (RID) : 2219

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ALLYL GLYCIDYL ETHER
Proper Shipping Name (IMDG) : ALLYL GLYCIDYL ETHER
Proper Shipping Name (IATA) : Allyl glycidyl ether
Proper Shipping Name (ADN) : ALLYL GLYCIDYL ETHER
Proper Shipping Name (RID) : ALLYL GLYCIDYL ETHER
Transport document description (ADR) : UN 2219 ALLYL GLYCIDYL ETHER, 3, III, (D/E)
Transport document description (IMDG) : UN 2219 ALLYL GLYCIDYL ETHER, 3, III (48°C c.c.)
Transport document description (IATA) : UN 2219 Allyl glycidyl ether, 3, III
Transport document description (ADN) : UN 2219 ALLYL GLYCIDYL ETHER, 3, III
Transport document description (RID) : UN 2219 ALLYL GLYCIDYL ETHER, 3, III

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3

IMDG
Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3

IATA
Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3
ALLYL GLYCIDYL ETHER
Safety Data Sheet

14.4. Packing group
Packing group (ADR) : III
Packing group (IMDG) : III
Packing group (IATA) : III
Packing group (ADN) : III
Packing group (RID) : III

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
Classification code (ADR) : F1
Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T2
Portable tank and bulk container special provisions (ADR) : TP1
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30
Orange plates : 30

SDS ID: ENEA0080
### ALLYL GLYCIDYL ETHER

### Safety Data Sheet

**Tunnel restriction code (ADR)**: D/E

#### - Transport by sea

- **Limited quantities (IMDG)**: 5 L
- **Excepted quantities (IMDG)**: E1
- **Packing instructions (IMDG)**: P001, LP01
- **IBC packing instructions (IMDG)**: IBC03
- **Tank instructions (IMDG)**: T2
- **Tank special provisions (IMDG)**: TP1
- **EmS-No. (Fire)**: F-E
- **EmS-No. (Spillage)**: S-D
- **Stowage category (IMDG)**: A
- **Flash point (IMDG)**: 48°C c.c.

**Properties and observations (IMDG)**: Colourless liquid. Flashpoint: 48°C c.c. Miscible with water. Harmful by inhalation. Irritating to skin, eyes and mucous membranes.

#### - Air transport

- **PCA Excepted quantities (IATA)**: E1
- **PCA Limited quantities (IATA)**: Y344
- **PCA limited quantity max net quantity (IATA)**: 10L
- **PCA packing instructions (IATA)**: 355
- **PCA max net quantity (IATA)**: 60L
- **CAO packing instructions (IATA)**: 366
- **CAO max net quantity (IATA)**: 220L
- **ERG code (IATA)**: 3L

#### - Inland waterway transport

- **Classification code (ADN)**: F1
- **Limited quantities (ADN)**: 5 L
- **Excepted quantities (ADN)**: E1
- **Equipment required (ADN)**: PP, EX, A
- **Ventilation (ADN)**: VE01
- **Number of blue cones/lights (ADN)**: 0

#### - Rail transport

- **Classification code (RID)**: F1
- **Limited quantities (RID)**: 5L
- **Excepted quantities (RID)**: E1
- **Packing instructions (RID)**: P001, IBC03, LP01, R001
- **Mixed packing provisions (RID)**: MP19
- **Portable tank and bulk container instructions (RID)**: T2
- **Portable tank and bulk container special provisions (RID)**: TP1
- **Tank codes for RID tanks (RID)**: LGBF
- **Transport category (RID)**: 3
- **Special provisions for carriage – Packages (RID)**: W12
- **Colis express (express parcels) (RID)**: CE4
- **Hazard identification number (RID)**: 30

**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
ALLYL GLYCIDYL ETHER is not on the REACH Candidate List
ALLYL GLYCIDYL ETHER is not on the REACH Annex XIV List
ALLYL GLYCIDYL ETHER 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.
ALLYL GLYCIDYL ETHER
Safety Data Sheet


% Volatiles : < 3 %

15.1.2. National regulations

Germany
Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No. 1378)
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 : ALLYL GLYCIDYL ETHER is 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 : ALLYL GLYCIDYL ETHER is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark
Class for fire hazard : Class III-1
Store unit : 50 liter
Classification remarks : Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

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; 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

Other information : Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Inhalation)</th>
<th>Acute toxicity (inhal.), Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4 (Inhalation:vapour)</td>
<td>Acute toxicity (inhalation:vapour) Category 4</td>
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<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 3</td>
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<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation, Category 1</td>
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<td>Flam. Liq. 3</td>
<td>Flammable liquids, Category 3</td>
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<td>Muta. 2</td>
<td>Germ cell mutagenicity, Category 2</td>
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<td>Rep. 2</td>
<td>Reproductive toxicity, Category 2</td>
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<tr>
<td>Rep. 2</td>
<td>Reproductive toxicity, Category 2</td>
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<tr>
<td>Skin Irrit. 2</td>
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<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitisation, Category 1</td>
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<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
</tr>
<tr>
<td>H226</td>
<td>Flammable liquid and vapour.</td>
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<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>Label</td>
<td>Description</td>
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<td>-------</td>
<td>-------------</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
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<tr>
<td>H341</td>
<td>Suspected of causing genetic defects.</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer.</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child.</td>
</tr>
<tr>
<td>H361f</td>
<td>Suspected of damaging fertility.</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

**SDS EU (REACH Annex II) - Custom**

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