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

1.1. Product identifier

Product form: Substance
Physical state: Liquid
Substance name: ALLYL BROMIDE
Product code: ENEA0050
Formula: C3H5Br
Synonyms: 3-BROMOPROPENE; 2-PROPENYL BROMIDE; 1-BROMO-2-PROPENE; 3-BROMOPROPYLENE
Chemical family: ESTER

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 2 H225
Acute toxicity (oral), Category 3 H301
Acute toxicity (inhalation/vapour) Category 3 H331
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319

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 GHS06
ALLYL BROMIDE
Safety Data Sheet

Signal word (CLP): Danger
Hazard statements (CLP):
- H225 - Highly flammable liquid and vapour.
- H301+H331 - Toxic if swallowed or inhaled
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.

Precautionary statements (CLP):
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P264 - Wash hands thoroughly after handling.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P240 - Ground/bond container and receiving equipment.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P311 - Call a doctor.

2.3. Other hazards
No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances
Substance type: Mono-constituent
Name: ALLYL BROMIDE
CAS-No.: 106-95-6
EC-No.: 203-446-6

<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 bromide</td>
<td>(CAS-No.) 106-95-6</td>
<td>&gt; 98</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 203-446-6</td>
<td></td>
<td>Acute Tox. 3 (Oral), H301</td>
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<td></td>
<td></td>
<td>Acute Tox. 3 (Inhalation: vapour), H331</td>
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<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2, H319</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. Get immediate medical advice/attention.
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 immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects after inhalation: Toxic if inhaled. May cause irritation to the respiratory tract.
Symptoms/effects after skin contact: Causes skin irritation.
Symptoms/effects after eye contact: Causes serious eye irritation.
Symptoms/effects after ingestion: Toxic 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
5.2. Special hazards arising from the substance or mixture

Fire hazard: Highly 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: 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

General measures: Eliminate every possible source of ignition. Use special care to avoid static electric charges.

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. Avoid release to the environment.

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. 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: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling: Avoid all eye and skin contact and do not breathe vapour and mist. Provide good ventilation in process area to prevent formation of vapour. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.

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

Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.

Storage conditions: Keep container tightly closed.


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 bromide (106-95-6)</th>
<th>Country ACGIH TWA (ppm)</th>
<th>Country ACGIH STEL (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italy - Portugal - USA</td>
<td>0.1 ppm</td>
<td>0.2 ppm</td>
</tr>
<tr>
<td>Italy - Portugal - USA</td>
<td>0.1 ppm</td>
<td>0.2 ppm</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.
ALLYL BROMIDE
Safety Data Sheet

Eye protection:
Chemical goggles. Contact lenses should not be worn

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
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>120.98 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>Straw yellow</td>
</tr>
<tr>
<td>Odour</td>
<td>Strong. Disagreeable. Lachrymator.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
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<tr>
<td>Refractive index</td>
<td>1.469</td>
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<tr>
<td>pH</td>
<td>No data available</td>
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<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>7</td>
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<tr>
<td>Melting point</td>
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<tr>
<td>Freezing point</td>
<td>119 °C</td>
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<tr>
<td>Boiling point</td>
<td>70 - 71 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>-2 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>295 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
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<tr>
<td>Flammability (solid, gas)</td>
<td>Highly flammable liquid and vapour.</td>
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<tr>
<td>Vapour pressure</td>
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<tr>
<td>Relative vapour density at 20 °C</td>
<td>4.17</td>
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<tr>
<td>Relative density</td>
<td>1.398</td>
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<tr>
<td>% Volatiles</td>
<td>100 %</td>
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<tr>
<td>Solubility</td>
<td>Slightly. Soluble in water.</td>
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<tr>
<td>Log Pow</td>
<td>No data available</td>
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<tr>
<td>Log Kow</td>
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<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
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<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
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<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidising properties</td>
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<tr>
<td>Explosive limits</td>
<td>4.4 - 7.3 vol % (lower; upper)</td>
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</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
Unstable.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid
Heat. Open flame. Sparks.

10.5. Incompatible materials

10.6. Hazardous decomposition products
Organic acid vapors.
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Toxic if swallowed. Toxic if inhaled.

**ALLYL BROMIDE (106-95-6)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>120 mg/kg</td>
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**Allyl bromide (106-95-6)**

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>120 mg/kg</td>
</tr>
<tr>
<td>LD50 oral guinea pig</td>
<td>30 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>10 mg/l (Exposure time: 30 min)</td>
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<tr>
<td>ATE CLP (oral)</td>
<td>120 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE CLP (vapours)</td>
<td>10 mg/l/4h</td>
</tr>
<tr>
<td>ATE CLP (dust,mist)</td>
<td>10 mg/l/4h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Mouse feeding and inhalation studies classify this material as an equivocal tumorigenic agent. (RTECS UC7350000/UC7026FO)

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Symptoms/effects after inhalation: Toxic if inhaled. May cause irritation to the respiratory tract.

Symptoms/effects after skin contact: Causes skin irritation.

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

Symptoms/effects after ingestion: Toxic 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 - water: Very toxic to aquatic life.

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

Other adverse effects: Harmful to aquatic life if released to open waters.

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. Dispose of contents/container to licensed waste disposal facility.

Additional information: Handle empty containers with care because residual vapours are flammable.

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>Description</th>
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<tbody>
<tr>
<td>UN-No. (ADR)</td>
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<td>UN-No. (IMDG)</td>
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<td>UN-No. (IATA)</td>
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<td>UN-No. (ADN)</td>
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<tr>
<td>UN-No. (RID)</td>
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### 14.2. UN proper shipping name

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<th>Description</th>
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<tr>
<td>Proper Shipping Name (ADR)</td>
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<td>Proper Shipping Name (IMDG)</td>
<td>ALLYL BROMIDE</td>
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<tr>
<td>Proper Shipping Name (IATA)</td>
<td>Allyl bromide</td>
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<td>Proper Shipping Name (ADN)</td>
<td>ALLYL BROMIDE</td>
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<tr>
<td>Proper Shipping Name (RID)</td>
<td>ALLYL BROMIDE</td>
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<table>
<thead>
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<td>Transport document description (ADR)</td>
<td>UN 1099 ALLYL BROMIDE, 3 (6.1), I, (C/E)</td>
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<td>Transport document description (IMDG)</td>
<td>UN 1099 ALLYL BROMIDE, 3 (6.1), I, MARINE POLLUTANT (-1°C c.c.)</td>
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<td>Transport document description (RID)</td>
<td>UN 1099 ALLYL BROMIDE, 3 (6.1), I</td>
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### 14.3. Transport hazard class(es)

#### ADR

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<td>Transport hazard class(es) (ADR)</td>
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<td>Danger labels (ADR)</td>
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#### IMDG

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<td>Danger labels (IMDG)</td>
<td>3, 6.1</td>
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#### IATA

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<th>Description</th>
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<td>Transport hazard class(es) (IATA)</td>
<td>3 (6.1)</td>
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<td>Hazard labels (IATA)</td>
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#### ADN

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</tr>
<tr>
<td>Danger labels (ADN)</td>
<td>3, 6.1</td>
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</tbody>
</table>
ALLYL BROMIDE
Safety Data Sheet

RID
Transport hazard class(es) (RID) : 3 (6.1)
Danger labels (RID) : 3, 6.1

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

14.5. Environmental hazards
Dangerous for the environment : No
Marine pollutant : Yes (IMDG only)
Other information : No supplementary information available

14.6. Special precautions for user
- Overland transport
Classification code (ADR) : FT1
Limited quantities (ADR) : 0
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P001
Mixed packing provisions (ADR) : MP7, MP17
Portable tank and bulk container instructions (ADR) : T14
Portable tank and bulk container special provisions (ADR) : TP2
Tank code (ADR) : L10CH
Tank special provisions (ADR) : TU14, TU15, TE21
Vehicle for tank carriage : FL
Transport category (ADR) : 1
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28
Special provisions for carriage - Operation (ADR) : S2, S22
Hazard identification number (Kemler No.) : 336
Orange plates : 1099

Tunnel restriction code (ADR) : C/E
EAC code : 2WE
APP code : A(dfl)

- Transport by sea
Limited quantities (IMDG) : 0
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P001
Tank instructions (IMDG) : T14
### Tank special provisions (IMDG)
- TP2, TP13

### EmS-No. (Fire)
- F-E

### EmS-No. (Spillage)
- S-D

### Stowage category (IMDG)
- B

### Stowage and handling (IMDG)
- SW2

### Flash point (IMDG)
- -1°C c.c.

### Properties and observations (IMDG)
- Colourless to light yellow liquid with an irritating odour. Flashpoint: -1°C c.c. Explosive limits: 4.4% to 7.3% Immiscible with water. Highly toxic if swallowed, by skin contact or by inhalation.

#### - Air transport
- **PCA Excepted quantities (IATA)**: E0
- **PCA Limited quantities (IATA)**: Forbidden
- **PCA limited quantity max net quantity (IATA)**: Forbidden
- **PCA packing instructions (IATA)**: Forbidden
- **PCA max net quantity (IATA)**: 361
- **CAO max net quantity (IATA)**: 30L
- **ERG code (IATA)**: 3P

#### - Inland waterway transport
- **Classification code (ADN)**: FT1
- **Special provisions (ADN)**: 802
- **Limited quantities (ADN)**: 0
- **Excepted quantities (ADN)**: E0
- **Equipment required (ADN)**: PP, EP, EX, TOX, A
- **Ventilation (ADN)**: VE01, VE02
- **Number of blue cones/lights (ADN)**: 2

#### - Rail transport
- **Classification code (RID)**: FT1
- **Limited quantities (RID)**: 0
- **Excepted quantities (RID)**: E0
- **Packing instructions (RID)**: P001
- **Mixed packing provisions (RID)**: MP7, MP17
- **Portable tank and bulk container instructions (RID)**: T14
- **Portable tank and bulk container special provisions (RID)**: TP2
- **Tank codes for RID tanks (RID)**: L10CH
- **Special provisions for RID tanks (RID)**: TU14, TU15, TU38, TE21, TE22
- **Transport category (RID)**: 1
- **Special provisions for carriage - Loading, unloading and handling (RID)**: CW13, CW28
- **Hazard identification number (RID)**: 336

#### 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 BROMIDE is not on the REACH Candidate List
- ALLYL BROMIDE is not on the REACH Annex XIV List
- ALLYL BROMIDE 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
- 100 %
15.1.2. National regulations

**Germany**
Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to VwVwS, Annex 3; ID No. 5980)
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 BROMIDE 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 : The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

**Denmark**
Classification remarks : 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

15.2. Chemical safety assessment
No additional information available

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. 3 (Inhalation:vapour)</th>
<th>Acute toxicity (inhalation:vapour) Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Oral)</td>
<td>Acute toxicity (oral), Category 3</td>
</tr>
<tr>
<td>Eye Irrit. 2</td>
<td>Serious eye damage/eye irritation, Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids, Category 2</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation, Category 2</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapour.</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled.</td>
</tr>
</tbody>
</table>

SDS EU (REACH Annex II) - Custom
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