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

#### 1.1 Product identifier

- **Trade name**: propan-2-ol
- **Article number**: 1626
- **CAS Number**: 67-63-0
- **EC number**: 200-661-7
- **Index number**: 603-117-00-0
- **Registration number**: 01-2119457558-25-XXXX

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

Only for the use of professionals users

**Life cycle stages**
- IS  Use at industrial Sites
- M  Manufacture
- F  Formulation or re-packing
- PW  Widespread use by professional workers

**Sector of Use**
- SU3  Industrial uses: Uses of substances as such or in preparations at industrial sites
- SU9  Manufacture of fine chemicals
- SU10  Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
- SU22  Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- SU24  Scientific research and development

**Product category**
- PC19  Intermediate
- PC20  Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
- PC21  Laboratory chemicals
- PC37  Water treatment chemicals

**Process category**
- PROC1  Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
- PROC2  Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
- PROC3  Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
- PROC4  Chemical production where opportunity for exposure arises
- PROC5  Mixing or blending in batch processes
- PROC7  Industrial spraying
- PROC8a  Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- PROC8b  Transfer of substance or mixture (charging and discharging) at dedicated facilities
- PROC9  Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
- PROC10  Roller application or brushing
- PROC13  Treatment of articles by dipping and pouring
- PROC15  Use as laboratory reagent

**Environmental release category**
- ERC1  Manufacture of the substance
- ERC2  Formulation into mixture
- ERC4  Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- ERC6a  Use of intermediate
- ERC6b  Use of reactive processing aid at industrial site (no inclusion into or onto article)

**Application of the substance / the mixture**
- Chemical for research, development, manufacturing, laboratory chemical for analysis.

(Contd. on page 2)
**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**

  ![GHS02 flame](image)
  **GHS02 flame**

  Flam. Liq. 2  **H225**  Highly flammable liquid and vapour.

  ![GHS07](image)
  **GHS07**

  Eye Irrit. 2  **H319**  Causes serious eye irritation.

  STOT SE 2  **H336**  May cause drowsiness or dizziness.

- **2.2 Label elements**
  - **Labelling according to Regulation (EC) No 1272/2008**
  - The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms**

  ![GHS02](image) ![GHS07](image)

  **GHS02**  **GHS07**

- **Signal word**  *Danger*

- **Hazard statements**
  - **H225**  Highly flammable liquid and vapour.
  - **H319**  Causes serious eye irritation.
  - **H336**  May cause drowsiness or dizziness.

- **Precautionary statements**
  - **P210**  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Trade name: propan-2-ol

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· 2.3 Other hazards
The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances
· CAS No. Description
  67-63-0 propan-2-ol
· Identification number(s)
  · EC number: 200-661-7
  · Index number: 603-117-00-0

SECTION 4: First aid measures

· 4.1 Description of first aid measures
· General information: Immediately remove any clothing soiled by the product.
· After inhalation: Supply fresh air; consult doctor in case of complaints.
· After skin contact: Immediately rinse with water.
· After eye contact:
  Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· After swallowing: If symptoms persist consult doctor.
· 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
· 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media
· Suitable extinguishing agents:
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· 5.2 Special hazards arising from the substance or mixture No further relevant information available.
· 5.3 Advice for firefighters
· Protective equipment: No special measures required.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
For personal protection see section 8.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
Dilute with plenty of water.
Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Store in cool, dry place in tightly closed receptacles.
Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking.
Take measures to prevent the build up of electrostatic charge.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection:
Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location.
Information about storage in one common storage facility: Not required.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace: Not required.
Trade name: propan-2-ol

- **DNELs**
  - 67-63-0
  - Workers Inhalation Long-term systemic effects 500 mg/m³
  - Workers Skin contact Long-term systemic effects 888 mg/kg BW/d
  - Consumers Inhalation Long-term systemic effects 89 mg/m³
  - Consumers Skin contact Long-term systemic effects 319 mg/kg BW/d
  - Consumers Ingestion Long-term systemic effects 26 mg/kg BW/d
- **PNECs**
  - 67-63-0
  - Soil 28 mg/kg
  - Marine water 140.9 mg/l
  - Fresh water 140.9 mg/l
  - Marine sediment 552 mg/kg
  - Fresh water sediment 552 mg/kg
- **Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls
- **Personal protective equipment:**
  - **General protective and hygienic measures:**
    - Keep away from foodstuffs, beverages and feed.
    - Immediately remove all soiled and contaminated clothing.
    - Wash hands before breaks and at the end of work.
    - Avoid contact with the eyes.
    - Avoid contact with the eyes and skin.
  - **Respiratory protection:**
    - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
  - **Protection of hands:**
    - **Protective gloves**
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
      - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
      - **Material of gloves**
        - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
      - **Penetration time of glove material**
        - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:**
    - **Tightly sealed goggles**

(Contd. of page 6)
**SECTION 9: Physical and chemical properties**

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:** Fluid
    - **Colour:** Clear
    - **Odour:** Alcohol-like
    - **Odour threshold:** Not determined.
  - **pH-value:** Not determined.
  - **Change in condition**
    - **Melting point/freezing point:** -89.5 °C
    - **Initial boiling point and boiling range:** 82 °C
  - **Flash point:** 13 °C
  - **Flammability (solid, gas):** Not applicable.
  - **Ignition temperature:** 425 °C
  - **Decomposition temperature:** Not determined.
  - **Auto-ignition temperature:** Not determined.
  - **Explosion properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
  - **Explosion limits:**
    - **Lower:** 2 Vol %
    - **Upper:** 12 Vol %
  - **Vapour pressure at 20 °C:** 43 hPa
  - **Density at 20 °C:** 0.785 g/cm³
  - **Relative density**
    - **Not determined.**
  - **Vapour density**
    - **Not determined.**
  - **Evaporation rate**
    - **Not determined.**
  - **Solubility in / Miscibility with water at 20 °C:** 1 g/l
  - **Partition coefficient: n-octanol/water:** Not determined.
  - **Viscosity:**
    - **Dynamic at 20 °C:** 2.43 mPas
    - **Kinematic:** Not determined.

- **9.2 Other information**
  - No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Route</th>
<th>LD/LC50 Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50 5,045 mg/kg (rat)</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50 12,800 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h 30 mg/l (rat)</td>
</tr>
</tbody>
</table>

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

HP 3 Flammable
### Trade name: propan-2-ol

<table>
<thead>
<tr>
<th>HP 4</th>
<th>Irritant - skin irritation and eye damage</th>
</tr>
</thead>
<tbody>
<tr>
<td>HP 5</td>
<td>Specific Target Organ Toxicity (STOT)/Aspiration Toxicity</td>
</tr>
</tbody>
</table>

- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

<table>
<thead>
<tr>
<th>14.1 UN-Number</th>
<th>UN1219</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>UN1219 ISOPROPANOL (ISOPROPYL ALCOHOL)</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>ADR</td>
</tr>
<tr>
<td></td>
<td>Class</td>
</tr>
<tr>
<td></td>
<td>Label</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4 Packing group</th>
<th>ADR, IMDG, IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.5 Environmental hazards:</td>
<td>ADR, IMDG, IATA</td>
</tr>
<tr>
<td></td>
<td>Class</td>
</tr>
<tr>
<td></td>
<td>Label</td>
</tr>
</tbody>
</table>

| 14.6 Special precautions for user | Warning: Flammable liquids. |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

<table>
<thead>
<tr>
<th>Transport/Additional information:</th>
<th>ADR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited quantities (LQ)</td>
<td>1L</td>
</tr>
<tr>
<td>Excepted quantities (EQ)</td>
<td>Code: E2</td>
</tr>
<tr>
<td>Maximum net quantity per inner packaging:</td>
<td>30 ml</td>
</tr>
<tr>
<td>Maximum net quantity per outer packaging:</td>
<td>500 ml</td>
</tr>
</tbody>
</table>

(Contd. on page 9)
### Transport category
- **2**

### Tunnel restriction code
- **D/E**

### IMDG

<table>
<thead>
<tr>
<th>Limited quantities (LQ)</th>
<th>1L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excepted quantities (EQ)</td>
<td>Code: E2</td>
</tr>
<tr>
<td>Maximum net quantity per inner packaging</td>
<td>30 ml</td>
</tr>
<tr>
<td>Maximum net quantity per outer packaging</td>
<td>500 ml</td>
</tr>
</tbody>
</table>

### UN "Model Regulation":
- **UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II**

### SECTION 15: Regulatory information

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

- **Labelling according to Regulation (EC) No 1272/2008**
  - The substance is classified and labelled according to the CLP regulation.

#### Hazard pictograms

- GHS02
- GHS07

#### Signal word
- **Danger**

#### Hazard statements
- **H225** Highly flammable liquid and vapour.
- **H319** Causes serious eye irritation.
- **H336** May cause drowsiness or dizziness.

#### Precautionary statements

- **P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- **P241** Use explosion-proof [electrical/ventilating/lighting] equipment.
- **P303+P361+P335** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- **P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **P405** Store locked up.
- **P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Directive 2012/18/EU
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

#### REGULATION (EC) No 1907/2006 ANNEX XVII
- Conditions of restriction: 3, 40

#### 15.2 Chemical safety assessment:
- A Chemical Safety Assessment has been carried out.
SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department
- **Contact:** Product safety department
- **Abbreviations and acronyms:**
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - IATA-DGR: Dangerous Goods Regulations by the “International Air Transport Association” (IATA)
  - ICAO: International Civil Aviation Organisation
  - ICAO-TI: Technical Instructions by the “International Civil Aviation Organisation” (ICAO)
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- **Data compared to the previous version altered.**
Annex: Exposure scenario

- **Short title of the exposure scenario**
- **Sector of Use**
  - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
  - SU9 Manufacture of fine chemicals
  - SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
  - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
  - SU24 Scientific research and development
- **Product category**
  - PC19 Intermediate
  - PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents
  - PC21 Laboratory chemicals
  - PC37 Water treatment chemicals
- **Process category**
  - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
  - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
  - PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
  - PROC4 Chemical production where opportunity for exposure arises
  - PROC5 Mixing or blending in batch processes
  - PROC7 Industrial spraying
  - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
  - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
  - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
  - PROC10 Roller application or brushing
  - PROC13 Treatment of articles by dipping and pouring
  - PROC15 Use as laboratory reagent
- **Environmental release category**
  - ERC1 Manufacture of the substance
  - ERC2 Formulation into mixture
  - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
  - ERC6 Use of intermediate
  - ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)
- **Notes**
  - The product is not intended for industrial use.
  - The product is intended for professional use.

**Description of the activities / processes covered in the Exposure Scenario**

1. Used as chemical intermediate
   - **Main User Groups:** SU 3
   - **Sectors of end-use:** SU 3, SU9
   - **Chemical product category:** PC19
   - **Process categories:** PROC1, PROC2, PROC3, PROC4, PROC8b, PROC15
   - **Environmental Release Categories:** ERC1, ERC4, ERC6a

2. Formulation of preparations
   - **Main User Groups:** SU 3
   - **Sectors of end-use:** SU 10
   - **Process categories:** PROC2, PROC3, PROC4, PROC8b, PROC9
   - **Environmental Release Categories:** ERC2
3. Industrial use of processing aids in processes and products, not becoming part of articles
Main User Groups : SU 3
Sectors of end-use : SU 3, SU9
Chemical product category : PC20, PC21
Process categories : PROC1, PROC2, PROC3, PROC4, PROC8b, PROC9, PROC10
Environmental Release Categories : ERC4, ERC6b

4. Used as laboratory reagent
Main User Groups : SU 22
Sectors of end-use : SU 3, SU 22, SU24
Chemical product category : PC19, PC20, PC21
Process categories : PROC10, PROC15
Environmental Release Categories : ERC4, ERC6a, ERC6b

5. Surface treatment
Main User Groups : SU 3
Sectors of end-use : SU 3, SU9
Chemical product category : PC35
Process categories : PROC5, PROC7, PROC8a, PROC10, PROC13
Environmental Release Categories : ERC2, ERC4, ERC6b

Conditions of use
Customary application according to section 1.
Duration and frequency  5 workdays/week.
Worker
Application duration : > 4 h
Frequency of use : 220 days/year
Environment Indoor use
Physical parameters See section 9 to the Safety Data Sheet.
Physical state Fluid
Concentration of the substance in the mixture
Raw material.
Covers the percentage of the substance in the product up to 100 %
Used amount per time or activity Covers the percentage of the substance in the product up to 100 %
Other operational conditions Observe the general safety regulations when handling chemicals.
Other operational conditions affecting environmental exposure
Observe section 6 of the Safety Data Sheet (Accidental release measures).
Other operational conditions affecting worker exposure
Avoid contact with eyes.
Take precautionary measures against static discharge.
Keep away from sources of ignition - No smoking.
Do not breathe gas/fume/vapour/aerosol.
Keep container tightly closed and in a well-ventilated place.
Risk management measures
Worker protection Observe section 7.1 and 8.1-8.2 of the Safety Data Sheet
Organisational protective measures
Deploy only trained chemical workers.
Ensure that activities are executed by specialists or authorised personnel only.
Keep away from food, beverages and animal feed.
Consider section 4 of the Safety Data Sheet (First aid measures).
Provide emergency eye wash station and mark its location clearly.
Technical protective measures
Provide explosion-proof electrical equipment.
Ensure that suitable extractors are available on processing machines

**Personal protective measures**
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes.
- Tightly sealed goggles
- Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
- Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- For personal protection see section 8.

**Measures for consumer protection**
- Ensure adequate labelling.
- Keep locked up and out of the reach of children.

**Environmental protection measures**
- Water Do not allow to reach ground water, water bodies or sewage system.
- Soil Prevent contamination of soil.

**Notes** In case of unintended release of the product: See section 6 of the Safety Data Sheet.

**Disposal measures**
- Disposal must be made according to official regulations.
- Ensure that waste is collected and contained.

**Disposal procedures**
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Waste type** Partially emptied and uncleaned packaging

**Exposure estimation**

**Worker (dermal)**
- 67-63-0 Without local exhaust ventilation

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Exposure Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROC1</td>
<td>0.0343 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC2</td>
<td>1.37 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC3</td>
<td>0.686 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC4</td>
<td>6.86 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC5</td>
<td>13.7 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC7</td>
<td>42.9 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC8a</td>
<td>13.7 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC8b</td>
<td>13.7 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC9</td>
<td>6.86 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC10</td>
<td>27.4 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC13</td>
<td>13.7 mg/kg BW/d</td>
</tr>
<tr>
<td>PROC15</td>
<td>0.343 mg/kg BW/d</td>
</tr>
</tbody>
</table>

The calculated value is smaller than the DNEL.
Risk Characterization ratio <1

**Worker (inhalation)**
- 67-63-0 Without local exhaust ventilation

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Exposure Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROC1</td>
<td>0.0175 mg/m³</td>
</tr>
<tr>
<td>PROC2</td>
<td>8.76 mg/m³</td>
</tr>
<tr>
<td>PROC3</td>
<td>17.5 mg/m³</td>
</tr>
<tr>
<td>PROC4</td>
<td>35.1 mg/m³</td>
</tr>
<tr>
<td>PROC5</td>
<td>87.6 mg/m³</td>
</tr>
<tr>
<td>PROC7</td>
<td>438 mg/m³</td>
</tr>
<tr>
<td>PROC8a</td>
<td>87.6 mg/m³</td>
</tr>
<tr>
<td>PROC8b</td>
<td>43.8 mg/m³</td>
</tr>
<tr>
<td>PROC9</td>
<td>87.6 mg/m³</td>
</tr>
<tr>
<td>PROC10</td>
<td>87.6 mg/m³</td>
</tr>
</tbody>
</table>

The calculated value is smaller than the DNEL.
Trade name: propan-2-ol

PROC13 87.6 mg/m³
PROC15 17.5 mg/m³
The calculated value is smaller than the DNEL.
Risk Characterization ratio <1

Environment
A chemical safety assessment was performed according REACH Article 14(3), Annex I, sections 3 (Environmental Hazard assessment) and 4 (PBT/vPvB Assessment). As no hazard was identified, an exposure assessment and risk characterization is not necessary (REACH Annex I section 5.0).

Consumer
Not relevant for this Exposure Scenario.

Guidance for downstream users
Please refer to the following documents: ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system; ECHA Guidance for downstream users; ECHA Guidance on information requirements and chemical safety assessment Part D: Exposure Scenario Building. Part E: Risk Characterisation and Part G: Extending the SDS; VCI/Cefic REACH Practical Guides on Exposure Assessment and Communications in the Supply Chain; CEFIC Guidance Specific Environmental Release Categories (SPERCs).