

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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## Safe Clean 25l

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

#### 1.1. Product identifier

Trade name/designation:

Safe Clean 25l

Article No.:

T204025

UFI:

NUMQ-RPVP-990X-DSPV

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

Use of the substance/mixture:

Surface cleaner

#### 1.3. Details of the supplier of the safety data sheet

Supplier:

**KANDO Service GmbH**

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids ( <i>Flam. Liq. 2</i> )	H225: Highly flammable liquid and vapour.	
Aspiration hazard ( <i>Asp. Tox. 1</i> )	H304: May be fatal if swallowed and enters airways.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	

#### 2.2. Label elements

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

Hazard pictograms:



**GHS02**  
Flame



**GHS07**  
Exclamation mark



**GHS08**  
Health hazard

Signal word: Danger

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### Hazard components for labelling:

Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, <2% aromatics; Reaction mass of ethylbenzene and xylene; propan-2-ol

#### Hazard statements for physical hazards

H225	Highly flammable liquid and vapour.
------	-------------------------------------

#### Hazard statements for health hazards

H304	May be fatal if swallowed and enters airways.
------	---

H319	Causes serious eye irritation.
------	--------------------------------

H336	May cause drowsiness or dizziness.
------	------------------------------------

#### Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
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#### Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
------	--

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
------	--

P271	Use only outdoors or in a well-ventilated area.
------	---

P280	Wear protective gloves and eye protection/face protection.
------	--

#### Precautionary statements Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
-------------	---

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
-------------	--

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
--------------------	--

P312	Call a POISON CENTER if you feel unwell.
------	--

P331	Do NOT induce vomiting.
------	-------------------------

#### Precautionary statements Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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P410 + P403	Protect from sunlight. Store in a well-ventilated place.
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#### Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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## 2.3. Other hazards

### Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Additional information:

The application of a CRF (Child-Resist Fastening) is mandatory when this product is offered on the consumer market. Please note that the CRF is part of the packaging and not of the classification. The application of a TWD (Tactile Warning of Danger) is mandatory when this product is offered on the consumer market. Please note that the TWD is part of the packaging and not of the classification.

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-48-9 EC No.: 919-857-5 REACH No.: 01-2119463258-33	<b>Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, &lt;2% aromatics</b> Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336) Danger	75 - < 100 Vol-%
	<b>Aliphatic hydrocarbons</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	≥ 30 Vol-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
	<b>Aromatic hydrocarbons</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	≥ 5 - < 15 Vol-%
CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25	<b>propan-2-ol</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	2.5 - < 10 Vol-%
EC No.: 905-588-0 REACH No.: 01-2119488216-32	<b>Reaction mass of ethylbenzene and xylene</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	2.5 - < 10 Vol-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Following inhalation:

Fresh air supply, consult a doctor in case of complaints.

#### In case of skin contact:

In general, the product is not irritating to skin.

#### After eye contact:

Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

#### Following ingestion:

Do not induce vomiting, seek medical help immediately.

### 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 media:

Water mist, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam

#### Unsuitable extinguishing media:

Water in full jet

### 5.2. Special hazards arising from the substance or mixture

No further relevant information available.

### 5.3. Advice for firefighters

Special protective equipment: Put on breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Wear protective equipment. Keep unprotected persons away.

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

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### 6.3. Methods and material for containment and cleaning up

**For containment:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up:**

Do not wash away with water or aqueous detergents.

**Other information:**

Provide adequate ventilation.

### 6.4. Reference to other sections

Further information on proper storage: see section 7.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Ensure good ventilation/extraction at the workplace.

**Fire prevent measures:**

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels:**

Store in a cool place.

**Storage class (TRGS 510, Germany):** 3 - Flammable liquids

**Further information on storage conditions:**

Store in a cool, dry place in well-sealed containers. Keep container tightly closed.

### 7.3. Specific end use(s)

**Recommendation:**

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	<b>Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, &lt;2% aromatics</b> CAS No.: 64742-48-9 EC No.: 919-857-5	① 200 mL/m <sup>3</sup> ② 400 mL/m <sup>3</sup> ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von weniger als 25 %)
MAK (AT)	<b>Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, &lt;2% aromatics</b> CAS No.: 64742-48-9 EC No.: 919-857-5	① 170 mL/m <sup>3</sup> ② 340 mL/m <sup>3</sup> ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von 25 % oder mehr)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	② 800 ppm (2,000 mg/m <sup>3</sup> ) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m <sup>3</sup> )

### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, &lt;2% aromatics</b> CAS No.: 64742-48-9 EC No.: 919-857-5	185 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, &lt;2% aromatics</b> CAS No.: 64742-48-9 EC No.: 919-857-5	871 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, &lt;2% aromatics</b> CAS No.: 64742-48-9 EC No.: 919-857-5	125 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, &lt;2% aromatics</b> CAS No.: 64742-48-9 EC No.: 919-857-5	208 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, &lt;2% aromatics</b> CAS No.: 64742-48-9 EC No.: 919-857-5	125 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	77 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	14.8 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	289 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	180 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	108 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	1.6 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, marine water
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil
<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, intermittent release
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	0.327 mg/L	① PNEC aquatic, marine water
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	6.58 mg/L	① PNEC sewage treatment plant
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	12.46 mg/L	① PNEC sediment, freshwater
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	12.46 mg/L	① PNEC sediment, marine water
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0	2.31 mg/kg	① PNEC soil

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No further details. See section 7.

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### 8.2.2. Personal protection equipment



#### Eye/face protection:

Safety goggles (EN-166)

#### Skin protection:

Hand protection:

The glove material must be impermeable and resistant to the product/the substance/the preparation. Due to the lack of tests, no recommendation can be made on the glove material for the product/preparation/mixture of chemicals. Selection of glove material considering breakthrough times, permeation rates and degradation.

Gloves / solvent resistant

Breakthrough times and swelling properties of the material must be taken into consideration.

Glove material:

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. NBR (Nitrile rubber)

Recommended material thickness:  $\geq 0,5$  mm

Permeation time (maximum wear duration):

For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available.

In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.

Body protection:

Use protective suit. (EN-13034/6)

Antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688 EN13034-6).

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Filter A2/P2

#### Other protection measures:

General protective and hygienic measures: Keep away from food, drink and animal feed. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. General ventilation.

### 8.2.3. Environmental exposure controls

Use a suitable container to prevent environmental pollution.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Liquid

Colour: According to product designation

Odour: characteristic

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		② Mixture is not polar/aprotic.
Melting point	<i>No data available</i>		
Freezing point	<i>No data available</i>		
Initial boiling point and boiling range	82 °C		② propan-2-ol
Flash point	13 °C		
Evaporation rate	<i>No data available</i>		

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Parameter	Value	at °C	① Method ② Remark
Auto-ignition temperature	270 °C		
Upper/lower flammability or explosive limits	0.6 - 7 Vol-%		
Vapour pressure	1 hPa	20 °C	
Vapour density	<i>No data available</i>		
Density	0.771 g/cm <sup>3</sup>	20 °C	
Bulk density	<i>not applicable</i>		
Water solubility			② Not miscible or only slightly miscible.
Dynamic viscosity	<i>No data available</i>		
Kinematic viscosity	<i>No data available</i>		
flammability			② Highly flammable

### 9.2. Other information

The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.

#### 9.2.1. Information with regard to physical hazard classes

**Explosives:**

Not applicable

**Flammable gases:**

Not applicable

**Aerosols:**

Not applicable

**Oxidizing gases:**

Not applicable

**Gases under pressure:**

Not applicable

**Flammable liquids:**

Highly flammable liquid and vapour.

**Flammable solids:**

Not applicable

**Self-reactive substances and mixtures:**

Not applicable

**Pyrophoric liquids:**

Not applicable

**Pyrophoric solids:**

Not applicable

**Self-heating substances and mixtures:**

Not applicable

**Substances or mixtures which, in contact with water, emit flammable gases:**

Not applicable

**Oxidizing liquids:**

Not applicable

**Oxidizing solids:**

Not applicable

**Organic peroxides:**

Not applicable

**Corrosive to metals:**

Not applicable

**Desensitised explosives:**

Not applicable



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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No further relevant information available.

#### 10.2. Chemical stability

Thermal decomposition / Conditions to avoid: No decomposition when used as directed.

#### 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.

#### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >25 ppmV (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >20 mg/L (Rat)
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0
<b>LD<sub>50</sub> oral:</b> >3,523 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit)
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 27.571 ppmV 4 h (Rat)
<b>Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, &lt;2% aromatics</b> CAS No.: 64742-48-9 EC No.: 919-857-5
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> 3,160 mg/kg (Rabbit)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >4,951 mg/L 4 h (Rat)

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### 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.

#### 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.

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### STOT-repeated exposure:

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

### Aspiration hazard:

May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

#### Endocrine disrupting properties:

None of the ingredients are included.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
<b>LC<sub>50</sub></b> : 9,640 mg/L 4 d (fish, Pimephales promelas)
<b>LC<sub>50</sub></b> : >1,000 mg/L 4 d (fish)
<b>EC<sub>50</sub></b> : >100 mg/L (Algae/water plant)
<b>EC<sub>50</sub></b> : >100 mg/L 2 d (crustaceans, Daphnia magna)
<b>EC<sub>50</sub></b> : >1,000 mg/L 2 d (crustaceans)
<b>ErC<sub>50</sub></b> : >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
<b>LOEC</b> : 1,000 mg/L (Algae/water plant, Algae)
<b>LC<sub>50</sub></b> : 8,970 mg/L 2 d (fish, Leuciscus idus (golden orfe))
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0
<b>LC<sub>50</sub></b> : 8.9 - 16.4 mg/L 4 d (fish, Pimephales promelas)
<b>EC<sub>50</sub></b> : 3.2 - 9.5 mg/L 2 d (crustaceans, Daphnia magna)
<b>NOEC</b> : 0.44 mg/L 3 d (Algae/water plant)
<b>LC<sub>50</sub></b> : 2.6 mg/L 4 d (fish, Oncorhynchus mykiss)
<b>EC<sub>50</sub></b> : 2.2 mg/L 3 d (Algae/water plant, Chlorella vulgaris)
<b>NOEC</b> : >1.39 mg/L (fish, Oncorhynchus kisutch)
<b>NOEC</b> : 0.74 mg/L (crustaceans, Ceriodaphnia dubia)

#### Aquatic toxicity:

No further relevant information available.

### 12.2. Persistence and degradability

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
<b>Biodegradation</b> : Yes, rapidly
<b>Remark</b> : Readily biodegradable (according to OECD criteria).

#### Biodegradation:

Not readily biodegradable.

#### Additional information:

No further relevant information available.

### 12.3. Bioaccumulative potential

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
<b>Log K<sub>OW</sub></b> : 0.05
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0
<b>Log K<sub>OW</sub></b> : 3.16
<b>Bioconcentration factor (BCF)</b> : 29

#### Accumulation / Evaluation:

No further relevant information available.

### 12.4. Mobility in soil

No further relevant information available.

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### 12.5. Results of PBT and vPvB assessment

<b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7
<b>Results of PBT and vPvB assessment:</b> —
<b>Reaction mass of ethylbenzene and xylene</b> EC No.: 905-588-0
<b>Results of PBT and vPvB assessment:</b> —
<b>Aliphatic hydrocarbons</b>
<b>Results of PBT and vPvB assessment:</b> —
<b>Aromatic hydrocarbons</b>
<b>Results of PBT and vPvB assessment:</b> —
<b>Hydrocarbons, C9-C11, n-alkanes, iso-alkanes, &lt;2% aromatics</b> CAS No.: 64742-48-9 EC No.: 919-857-5
<b>Results of PBT and vPvB assessment:</b> —

The product does not meet the PBT/vPvB criteria.

### 12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

### 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Drinking water hazard even when small quantities leak into the subsoil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Must not be disposed of together with household waste. Do not allow to enter into surface water or drains.

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

#### Waste treatment options

#### Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
UN 1993	UN 1993	UN 1993	UN 1993
<b>14.2. UN proper shipping name</b>			
FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated heavy, ISOPROPANOL (ISOPROPYL ALCOHOL))	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated heavy, ISOPROPANOL (ISOPROPYL ALCOHOL))	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated heavy, ISOPROPANOL (ISOPROPYL ALCOHOL))	FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrotreated heavy, ISOPROPANOL (ISOPROPYL ALCOHOL))
<b>14.3. Transport hazard class(es)</b>			
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
No	No	No	No

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 274   601   640 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E2 <b>Hazard identification number (Kemler No.):</b> 33 <b>Classification code:</b> F1 <b>Tunnel restriction code:</b> (D/E)	<b>Special Provisions:</b> 274   601   640 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E2 <b>Classification code:</b> F1	<b>Special Provisions:</b> 274 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E2 <b>EmS-No.:</b> F-E, S-E	<b>Special Provisions:</b> A3 <b>Limited quantity (LQ):</b> Y341 <b>Excepted Quantities (EQ):</b> E2 <b>Remark:</b> Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

## 14.7. Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Authorisations:

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients are included.

##### Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.

Regulation (EU) 2019/1148

Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.

Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.

Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

##### Other regulations (EU):

Hazard categories:

- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b

Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 771 g/L

#### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

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### 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids ( <i>Flam. Liq. 2</i> )	H225: Highly flammable liquid and vapour.	
Aspiration hazard ( <i>Asp. Tox. 1</i> )	H304: May be fatal if swallowed and enters airways.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.

### 16.6. Training advice

No data available

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### 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.