

SAFETY DATA SHEET

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

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Safe Clean 5l

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

1.1. Product identifier

Trade name/designation:

Safe Clean 5l

Article No.:

T204005

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:



GHS08

Health hazard



GHS07

Exclamation mark



GHS02

Flame

Signal word: Danger

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Hazard components for labelling:

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

Hazard statements for physical hazards

H225	Highly flammable liquid and vapour.
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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.
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P260	Do not breathe dust/fume/gas/mist/vapours/spray.
------	--

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

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ .
------	---

Precautionary statements Response

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

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/doctor/ 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.
-------------	--

Precautionary statements Disposal

P501	Dispose of the contents / container in accordance with local / regional / national / international regulations.
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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.

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Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 919-857-5 REACH No.: 01-2119463258-33	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336) Danger Acute Toxicity Estimate ATE (oral) 5,000 mg/kg ATE (dermal) 2,000 mg/kg ATE (inhalation, vapour) 4.951 mg/L ATE (inhalation, dust/mist) 5.6 mg/L	75 - < 100 weight-%
	Aliphatic hydrocarbons The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	≥ 30 weight-%
REACH No.: 01-2119486136-34	Aromatic hydrocarbons The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	≥ 5 - < 15 weight-%
CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25	propan-2-ol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) > 20 mg/L	2.5 - < 10 weight-%
EC No.: 905-588-0 REACH No.: 01-2119457558-25	Reaction mass of ethylbenzene and xylene Acute Tox. 4 (H312, H332), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) > 3,523 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) 27.571 ppmV ATE (inhalation, vapour) 29,000 mg/L	2.5 - < 10 weight-%

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, alcohol resistant foam

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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. Prevent penetration into sewers, pits and cellars. In case of spillage into water or sewage system, inform the competent authorities. Dilute with plenty of water.

* 6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid binder, universal binder, sawdust).

Other information:

Dispose of contaminated material as waste according to section 13. 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. Avoid aerosol formation.

Fire prevent measures:

Do not spray against a flame or on a glowing object. Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge.

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:

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

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

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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)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	② 800 ppm (2,000 mg/m ³) ⑤ (max. 4x15 min./Schicht)
MAK (AT)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m ³)

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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5	1,500 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5	900 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5	300 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5	300 mg/kg bw/day	① DNEL worker ② Acute - oral, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	500 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	89 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	319 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	77 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	14.8 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	289 mg/m ³	① DNEL worker ② Acute - inhalation, local effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	180 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	108 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Reaction mass of ethylbenzene and xylene 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
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	2,251 mg/L	① PNEC sewage treatment plant
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, freshwater
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	552 mg/kg	① PNEC sediment, marine water
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	28 mg/kg	① PNEC soil
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	140.9 mg/L	① PNEC aquatic, intermittent release
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	0.327 mg/L	① PNEC aquatic, marine water
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	6.58 mg/L	① PNEC sewage treatment plant
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	12.46 mg/L	① PNEC sediment, freshwater
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	12.46 mg/L	① PNEC sediment, marine water
Reaction mass of ethylbenzene and xylene 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.

8.2.2. Personal protection equipment



Eye/face protection:

Tight-fitting safety goggles (EN 166)

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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.

Penetration time of the glove material: 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). It is recommended to wear antistatic, chemical and oil-resistant clothing and safety shoes that completely cover the skin. (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

Form: Liquid

Colour: According to product designation

Odour: characteristic

flammability: No data available

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>		
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 ³		

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Parameter	Value	at °C	① Method ② Remark
Bulk density	<i>not applicable</i>		
Water solubility	completely 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.

Organic solvents: 100,0 %

9.2.1. Information with regard to physical hazard classes

Flammable liquids:

Highly flammable liquid and vapour.

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5	
LD₅₀ oral: 5,000 mg/kg (Rat) OECD 401	
LD₅₀ dermal: 2,000 mg/kg (Rat) OECD 402	
LC₅₀ Acute inhalation toxicity (vapour): 4.951 mg/L 4 h (Rat)	
LC₅₀ Acute inhalation toxicity (dust/mist): 5.6 mg/L 4 h (Rat) OECD 403	
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	
LD₅₀ oral: >2,000 mg/kg (Rat)	
LD₅₀ dermal: >2,000 mg/kg (Rat)	
LC₅₀ Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat)	
LC₅₀ Acute inhalation toxicity (vapour): >20 mg/L 6 h (Rat)	
Reaction mass of ethylbenzene and xylene EC No.: 905-588-0	
LD₅₀ oral: >3,523 mg/kg (Rat)	
LD₅₀ dermal: >2,000 mg/kg (Rabbit)	
LC₅₀ Acute inhalation toxicity (gas): 27.571 ppmV 4 h (Rat)	
LC₅₀ Acute inhalation toxicity (vapour): 29,000 mg/L 4 h (Rat)	

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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.

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics	EC No.: 919-857-5
LC₅₀: 1,000 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>) OECD 203	
LC₅₀: 1,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD 202	
LC₅₀: >1,000 mg/L 4 d (fish, Regenbogenforelle) OECD 203	
EC₅₀: 1,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD 202	
EC₅₀: 1,000 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) OECD 202	
EC₅₀: >1,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) OECD 202	
propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7
LC₅₀: >1,000 mg/L 4 d (fish)	
EC₅₀: >1,000 mg/L 2 d (crustaceans)	
LC₅₀: 9,640 mg/L 4 d (fish, <i>Pimephales promelas</i>)	
LC₅₀: 9,714 mg/L 1 d (<i>Daphnia magna</i>)	
EC₅₀: >100 mg/L (Algae/water plant, Bacteria)	
LOEC: 1,000 mg/L (Alge)	
EC₅₀: >100 mg/L 2 d (crustaceans, <i>Daphnia magna</i>)	
ErC₅₀: >100 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i>)	
LOEC: 1,000 mg/L (Algae/water plant, Algae)	

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Reaction mass of ethylbenzene and xylene EC No.: 905-588-0

LC₅₀: 8.9 – 16.4 mg/L 4 d (fish, Pimephales promelas)

EC₅₀: 3.2 – 9.5 mg/L 2 d (crustaceans, Daphnia magna)

NOEC: 0.44 mg/L 3 d (Algae/water plant)

LC₅₀: 2.6 mg/L 4 d (fish, Oncorhynchus mykiss)

EC₅₀: 2.2 mg/L 3 d (Algae/water plant, Chlorella vulgaris)

NOEC: >1.39 mg/L (fish, Oncorhynchus kisutch)

NOEC: 0.74 mg/L (crustaceans, Ceriodaphnia dubia)

LC₅₀: 8.9 – 16.4 mg/L 4 d (Pimephales promelas)

EC₅₀: 3.2 – 9.5 mg/L 2 d (Daphnia magna)

12.2. Persistence and degradability

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5

Biodegradation: Yes, rapidly

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

Biodegradation: Yes, rapidly

Remark: Readily biodegradable (according to OECD criteria).

Biodegradation:

Not readily biodegradable.

12.3. Bioaccumulative potential

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5

Log K_{OW}: > 4

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

Log K_{OW}: 0.05

Reaction mass of ethylbenzene and xylene EC No.: 905-588-0

Log K_{OW}: 3.16

Bioconcentration factor (BCF): 29

Bioconcentration factor (BCF):

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5

Results of PBT and vPvB assessment: —

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7

Results of PBT and vPvB assessment: —

Reaction mass of ethylbenzene and xylene EC No.: 905-588-0

Results of PBT and vPvB assessment: —

Aliphatic hydrocarbons

Results of PBT and vPvB assessment: —

Aromatic hydrocarbons

Results of PBT and vPvB assessment: —

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

water hazard class 2 (Self-assessment): obviously hazardous to water

Do not allow to enter into surface water or drains.

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

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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.

Recommended cleaning agent: Water, if necessary with the addition of cleaning agents.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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14.1. UN number or ID number

UN 1993	UN 1993	UN 1993	UN 1993
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* 14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics, ISOPROPANOL (ISOPROPYL ALCOHOL))	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics, ISOPROPANOL (ISOPROPYL ALCOHOL))	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics, ISOPROPANOL (ISOPROPYL ALCOHOL))	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics, ISOPROPANOL (ISOPROPYL ALCOHOL))
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14.3. Transport hazard class(es)

			
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14.4. Packing group

II	II	II	II
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14.5. Environmental hazards

No	No	No	No
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* 14.6. Special precautions for user

Special Provisions: Caution: Flammable liquid substances! Excepted Quantities (EQ): E2 Hazard identification number (Kemler No.): 33 Classification code: - Tunnel restriction code: (D/E) Remark: Congestion category: B Maximum net quantity Inner packaging: 30ml Maximum net quantity Outer packaging: 500ml	Special Provisions: Caution: Flammable liquid substances! Classification code: - Special Provisions: Caution: Flammable liquid substances! Limited quantity (LQ): 1L Excepted Quantities (EQ): E2 EmS-No.: F-E,S-E Remark: Maximum net quantity Inner packaging: 30ml Maximum net quantity Outer packaging: 500ml	Special Provisions: Caution: Flammable liquid substances! Limited quantity (LQ): 1L Excepted Quantities (EQ): E2 EmS-No.: F-E,S-E Remark: Maximum net quantity Inner packaging: 30ml Maximum net quantity Outer packaging: 500ml	Special Provisions: Caution: Flammable liquid substances!
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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
Transport category 2			

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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.

Seveso category P5c FLAMMABLE LIQUIDS

Quantity threshold (in tons) for use in lower class farms: 5000 t

Quantity threshold (in tons) for use in upper-tier establishments: 50000 t

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

5.1.	Extinguishing media
6.2.	Environmental precautions
6.3.	Methods and material for containment and cleaning up
7.1.	Precautions for safe handling
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
9.2.	Other information
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
13.1.	Waste treatment methods
14.2.	UN proper shipping name

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14.6.	Special precautions for user
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes

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 ₅₀	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 ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	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	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.

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Hazard statements	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

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.

* Data changed compared with the previous version.