

SAFETY DATA SHEET

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

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Clean Spray 5l

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

1.1. Product identifier

Trade name/designation:

Clean Spray 5l

Article No.:

T471005

UFI:

NK87-WUW4-HD0A-083A

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

Use of the substance/mixture:

Cold cleaner

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstalzell

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.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
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.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

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2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS08
Health hazard



GHS09
Environment

Signal word: Danger

Hazard components for labelling:

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

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.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Hazard statements for environmental hazards	
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information: none

Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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 or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
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.
P331	Do NOT induce vomiting.

Precautionary statements Storage	
P403 + P235	Store in a well-ventilated place. Keep cool.

Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

Additional information:

The product contains: Notifiable explosives precursors. Provision, transfer, possession and use in accordance with Regulation (EU) 2019/1148, Article 9.

2.3. Other hazards

Other adverse effects:

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

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Cleaning agent

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.: 64742-49-0 EC No.: 927-510-4 Index No.: 649-328-00-1 REACH No.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger	25 - 50 %
EC No.: 921-024-6 REACH No.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	25 - 50 %
CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25	propan-2-ol The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	25 - 50 %
	Aliphatic hydrocarbons The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	≥ 30 %
CAS No.: 67-64-1 Index No.: 606-001-00-8 REACH No.: 01-2119471330-49	Acetone Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066	10 - 25 %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

If unconscious but breathing normally, place in recovery position and seek medical advice.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

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 (CO₂), alcohol resistant foam

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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.

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. Avoid aerosol formation.

Fire prevent measures:

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:

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.

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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)	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	① 200 mL/m ³ ② 400 mL/m ³ 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)	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	① 170 mL/m ³ ② 340 mL/m ³ 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)
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)
MAK (AT)	Acetone CAS No.: 67-64-1	② 2,000 ppm (4,800 mg/m ³) ⑤ (max. 4x15 min./Schicht)
IOELV (EU)	Acetone CAS No.: 67-64-1	① 500 ppm (1,210 mg/m ³)
MAK (AT)	Acetone CAS No.: 67-64-1	① 500 ppm (1,200 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, C7, n-alkanes, isoalkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	2,085 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	477 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	300 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	149 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	149 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	2,035 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkane, cyclics, <5% n-hexane EC No.: 921-024-6	608 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	773 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	300 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	699 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	699 mg/kg bw/day	① DNEL Consumer ② Long-term - 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
Acetone CAS No.: 67-64-1	1,210 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Acetone CAS No.: 67-64-1	200 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Acetone CAS No.: 67-64-1	2,420 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
Acetone CAS No.: 67-64-1	186 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Acetone CAS No.: 67-64-1	62 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Acetone CAS No.: 67-64-1	62 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
Acetone CAS No.: 67-64-1	10.6 mg/L	① PNEC aquatic, freshwater
Acetone CAS No.: 67-64-1	1.06 mg/L	① PNEC aquatic, marine water
Acetone CAS No.: 67-64-1	100 mg/L	① PNEC sewage treatment plant
Acetone CAS No.: 67-64-1	30.4 mg/L	① PNEC sediment, freshwater
Acetone CAS No.: 67-64-1	3.04 mg/L	① PNEC sediment, marine water
Acetone CAS No.: 67-64-1	29.5 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:

Safety goggles (EN-166)

Skin protection:

Hand protection:

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.

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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. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. 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: colourless

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	55.8 - 56.6 °C		② Acetone
Flash point	< -18 °C		
Evaporation rate	<i>No data available</i>		
Auto-ignition temperature	> 200 °C		
Upper/lower flammability or explosive limits	0.6 - 13 Vol-%		
Vapour pressure	246 hPa	20 °C	
Vapour density	<i>No data available</i>		
Density	0.72 g/cm ³	20 °C	
Bulk density	<i>not applicable</i>		
Water solubility	<i>not applicable</i>		② Not miscible or only slightly miscible.
Dynamic viscosity	<i>No data available</i>		
Kinematic viscosity	<i>No data available</i>		

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.

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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

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.

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SECTION 11: Toxicological information

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

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4
LD₅₀ oral: ≥5,000 mg/kg (Rat)
LD₅₀ dermal: >2,920 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (vapour): >23.3 mg/L 4 h (Rat)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6
LD₅₀ oral: >5,000 mg/kg (Rat) OECD 401
LD₅₀ dermal: >2,920 mg/kg (Rabbit)
LC₅₀ Acute inhalation toxicity (gas): >20 ppmV 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 (Rat)
LC₅₀ Acute inhalation toxicity (vapour): >20 mg/L (Rat)
Acetone CAS No.: 67-64-1
LD₅₀ oral: ≥5,000 mg/kg (Rat)
LD₅₀ dermal: >20 mg/kg (Rat)
LC₅₀ Acute inhalation toxicity (gas): >20 ppmV 4 h (Rat)
LC₅₀ Acute inhalation toxicity (vapour): >50 mg/L 4 h (Rat)
LC₅₀ Acute inhalation toxicity (dust/mist): 76 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:

Causes skin irritation.

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.

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SECTION 12: Ecological information

12.1. Toxicity

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4
LC ₅₀ : >13.4 mg/L (fish)
EC ₅₀ : 3 mg/L (crustaceans, Daphnia magna)
NOEC: 0.17 mg/L (Algae/water plant, Daphnia magna)
LOEC: 0.32 mg/L (Algae/water plant)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6
LC ₅₀ : 11.4 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203
EC ₅₀ : 3 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
NOEC: 0.17 mg/L 21 d (crustaceans, Daphnia magna)
LOEC: 0.32 mg/L 21 d (crustaceans, Daphnia magna)
EC ₅₀ : 30 - 100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LC ₅₀ : 9,640 mg/L 4 d (fish, Pimephales promelas)
LC ₅₀ : >1,000 mg/L 4 d (fish)
EC ₅₀ : >100 mg/L (Algae/water plant)
EC ₅₀ : >100 mg/L 2 d (crustaceans, Daphnia magna)
EC ₅₀ : >1,000 mg/L 2 d (crustaceans)
ErC ₅₀ : >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LC ₅₀ : 8,970 mg/L 2 d (fish, Leuciscus idus (golden orfe))
Acetone CAS No.: 67-64-1
LC ₅₀ : 8,300 mg/L 4 d
LC ₅₀ : 5,540 mg/L 4 d (fish, Oncorhynchus mykiss)
LC ₅₀ : 4,042 mg/L (fish)
EC ₅₀ : 8,800 mg/L 2 d (crustaceans, Daphnia magna)
EC ₅₀ : 8,300 mg/L (fish)
EC ₅₀ : 302 mg/L 4 d (Algae/water plant)
NOEC: 2,212 mg/L (crustaceans, Daphnia pulex)

Aquatic toxicity:

No further relevant information available.

12.2. Persistence and degradability

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6
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).
Acetone CAS No.: 67-64-1
Biodegradation: Yes, rapidly

Biodegradation:

Not readily biodegradable.

Additional information:

No further relevant information available.

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12.3. Bioaccumulative potential

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC No.: 921-024-6
Log K_{OW}: 5.2	
Bioconcentration factor (BCF): 250	
propan-2-ol CAS No.: 67-63-0	EC No.: 200-661-7
Log K_{OW}: 0.05	
Acetone CAS No.: 67-64-1	
Log K_{OW}: -0.23	
Bioconcentration factor (BCF): 3	

Accumulation / Evaluation:

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	CAS No.: 64742-49-0	EC No.: 927-510-4
Results of PBT and vPvB assessment:	—	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC No.: 921-024-6	
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:	—	
Acetone	CAS No.: 67-64-1	
Results of PBT and vPvB assessment:	—	
Aliphatic 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

Do not allow to enter into surface water or drains.

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

Toxic to aquatic life.

Toxic to fish.

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 4	Irritant — skin irritation and eye damage
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 14	Ecotoxic

Waste treatment options

Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

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SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S. (HEPTANES, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	FLAMMABLE LIQUID, N.O.S. (HEPTANES, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	FLAMMABLE LIQUID, N.O.S. (HEPTANES, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)	FLAMMABLE LIQUID, N.O.S. (HEPTANES, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane)
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
		 MARINE POLLUTANT	No
14.6. Special precautions for user			
Special Provisions: 274 601 640C Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Hazard identification number (Kemler No.): 33 Classification code: not determined Tunnel restriction code: (D/E) Remark: Attention: Gases	Special Provisions: 274 601 640C Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 Classification code: not determined Remark: Attention: Gases	Special Provisions: 274 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E2 EmS-No.: F-E, S-E Remark: Attention: Gases	Special Provisions: A3 Limited quantity (LQ): Y341 Excepted Quantities (EQ): E2 Remark: Attention: Gases

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

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Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): Acetone

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

Regulation (EC) No 273/2004 on drug precursors: Acetone

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: Acetone

Other regulations (EU):

Hazard categories:

- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

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: 720 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

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
BCF	Bioconcentration Factor
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
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
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

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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.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
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.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

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.