

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1577

Revision date: 7 Feb 2023

Print date: 7 Feb 2023

Version: 0.5



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REDOCOL Teclonex One-for-All Spray bottle

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

1.1. Product identifier

Trade name/designation:

REDOCOL Teclonex One-for-All Spray bottle

Article No.:

755.9510

UFI:

U3DS-W18N-E00U-KM8D

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

Use of the substance/mixture:

Allround

Relevant identified uses:

Sector of uses [SU]

SU 6a: Manufacture of wood and wood products

Product Categories [PC]

PC 16: Heat transfer fluids

PC 24: Lubricants, greases, release products

PC 35: Washing and cleaning products

1.3. Details of the supplier of the safety data sheet

distributor:

Ostermann UK Ltd

Stonebridge Cross Business Park

Unit 104 Pointon Way

WR9 0LW Droitwich

United Kingdom

Telephone: UK +44 (0) 1905 793 550, Ireland +44 (0) 1905 793 552

Telefax: +44 (0) 1905 793 559

E-mail: UK sales.uk@ostermann.eu, Ireland sales.ie@ostermann.eu

Website: www.ostermann.eu

E-mail (competent person): j.bruns@ostermann.eu

1.4. Emergency telephone number

UK: Mr. J. Bruns +44 1905 793 550

IR: Mr. J. Bruns +44 1905 793 552, 24h: +49 30 - 30 68 67 00 (National Poison Inform. Centre Berlin) , UK +44 1905 793 550/ IR +44 (0)1905 793 552 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	

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2.2. Label elements

Labelling according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard pictograms:



GHS02
Flame

Signal word: Danger

Hazard statements for physical hazards

H225	Highly flammable liquid and vapour.
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Supplemental hazard information: none

Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240	Ground and bond container and receiving equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.

Precautionary statements Response

P370 + P378	In case of fire: Use Foam to extinguish.
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Precautionary statements Disposal

P501	Dispose of contents/container to Disposal methods.
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Special rules for supplemental label elements for certain mixtures:

1,1 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

89,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

13,2 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Mixture of following listed substances with nonhazardous additions.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Concentration
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	3 - ≤ 7 weight-%
CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3	butanone Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)   Danger EUH066	1 - < 2.66 weight-%
CAS No.: 107-21-1 EC No.: 203-473-3 REACH No.: 01-2119456816-28	Ethandiol Acute Tox. 4 (H302), STOT RE 2 (H373)   Warning	0 - ≤ 1 weight-%
CAS No.: 34590-94-8 EC No.: 252-104-2	(2-methoxymethylethoxy)propanol Substance with a community workplace exposure limit.	0 - ≤ 0.174999 weight-%

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Product identifiers	Substance name Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Concentration
CAS No.: 103-09-3 EC No.: 203-079-1	2-ethylhexyl acetate Skin Irrit. 2 (H315) Warning	0 - < 0.02 weight-%

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Headache, Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

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

Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Let 1 glass of water be drunken in little sips (dilution effect).

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet alcohol resistant foam Extinguishing powder Carbon dioxide (CO₂).
Fire extinguishers Fire class B.

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Highly flammable, Combustible.

Hazardous combustion products:

In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide, Pyrolysis products, toxic, carbon black.

In case of fire: Gases/vapours, toxic.

5.3. Advice for firefighters

Cool endangered containers by spraying with water.. Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Special danger of slipping by leaking/spilling product. Remove persons to safety.

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Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8.

6.2. Environmental precautions

Discharge into the environment must be avoided. Do not allow run-off from fire-fighting to enter drains or water courses.

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:

Soak up inert absorbent and dispose as waste requiring special attention.

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

For cleaning up:

Clean with detergents. Avoid solvent cleaners. Water (with cleaning agent).

6.4. Reference to other sections

Safe handling: see section 7.

Personal protection equipment: see section 8.

Disposal: see section 13.

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Wear personal protection equipment (refer to section 8).

Fire prevent measures:

Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking.

Measures to prevent aerosol and dust generation:

Use only in well-ventilated areas.

Advices on general occupational hygiene

Wash hands before breaks and after work. After cleaning apply high-fat content skin care cream.

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:

Material, solvent-resistant, Keep/Store only in original container.

Requirements for storage rooms and vessels:

Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRGS 727)".

Hints on storage assembly:

Keep away from combustible material. Do not store together with:

Combustible substances of acute toxicity, category 1 and 2 / very toxic substances

Non-combustible substances of acute toxicity, category 1 and 2 / very toxic substances

Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

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

Further information on storage conditions:

Protect from sunlight. Store in a well-ventilated place.

7.3. Specific end use(s)

Recommendation:

Detergents and cleaning products (including solvent based),
Commercial use of general purpose surface cleaners., Refrigerant, Type, Lubricants, greases, release products.

Industrial sector specific solutions:

Stripper, containing solvents with skin absorptive substances, not labelled

GISCODE:

GG30

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
IE from 17 Jan 2020	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm ② 400 ppm ⑤ (may be absorbed through the skin) Sk
WEL (GB)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 400 ppm (999 mg/m ³) ② 500 ppm (1,250 mg/m ³)
IE	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV
IOELV (EU)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)
WEL (GB)	butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (899 mg/m ³)
IE from 17 Jan 2020	Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV
IOELV (EU)	Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	① 20 ppm (52 mg/m ³) ② 40 ppm (104 mg/m ³) ⑤ (vapour, may be absorbed through the skin)
WEL (GB)	Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	① 10 mg/m ³ ⑤ (may be absorbed through the skin)
IE	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (may be absorbed through the skin) Sk, IOELV

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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
IOELV (EU)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (may be absorbed through the skin)
WEL (GB)	(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	① 50 ppm (308 mg/m ³) ⑤ (may be absorbed through the skin)

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
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	319 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	888 mg/kg	① DNEL worker ② Long-term - dermal, local effects
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	26 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	600 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	106 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	1,161 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	412 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
butanone CAS No.: 78-93-3 EC No.: 201-159-0	31 mg/kg bw/ day	① DNEL worker ② Long-term - oral, systemic effects
Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	35 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	7 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	106 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3	53 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
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	308 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	37.2 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	283 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	121 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	36 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	17 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	3 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	71 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	35.5 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	71 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	35.5 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	30 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	15 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	1.5 mg/kg	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	28 mg/kg	① PNEC soil, freshwater

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Substance name	PNEC Value	① PNEC type
butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, freshwater
butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, marine water
butanone CAS No.: 78-93-3 EC No.: 201-159-0	709 mg/L	① PNEC sewage treatment plant
butanone CAS No.: 78-93-3 EC No.: 201-159-0	284.74 mg/kg	① PNEC sediment, freshwater
butanone CAS No.: 78-93-3 EC No.: 201-159-0	284.7 mg/kg	① PNEC sediment, marine water
butanone CAS No.: 78-93-3 EC No.: 201-159-0	1 g/kg	① PNEC secondary poisoning
butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, intermittent release
butanone CAS No.: 78-93-3 EC No.: 201-159-0	22.5 mg/kg	① PNEC soil, freshwater
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	19 mg/L	① PNEC aquatic, freshwater
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	1.9 mg/L	① PNEC aquatic, marine water
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	4,168 mg/L	① PNEC sewage treatment plant
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	70.2 mg/kg	① PNEC sediment, freshwater
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	7.02 mg/kg	① PNEC sediment, marine water
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	2.74 mg/kg	① PNEC soil
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2	190 mg/L	① PNEC aquatic, intermittent release
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	0.00827 mg/L	① PNEC aquatic, freshwater
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	0.000827 mg/L	① PNEC aquatic, marine water
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	100 mg/L	① PNEC sewage treatment plant
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	0.213 mg/kg	① PNEC sediment, freshwater
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	0.0213 mg/kg	① PNEC sediment, marine water

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Substance name	PNEC Value	① PNEC type
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	0.0827 mg/L	① PNEC aquatic, intermittent release
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	0.0377 mg/kg	① PNEC soil, freshwater

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. generation/formation of aerosols: Technical ventilation of workplace.

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection EN 166.

Skin protection:

The glove material has to be resistant and impermeable to the product / the substance / the mixture. In full contact: Tested protective gloves must be worn EN ISO 374. Suitable material: Butyl caoutchouc (butyl rubber) >0,7 mm, Breakthrough time: >480 min.

The following gloves may be used: Ultranitrl 492, MAPA Professionnel & Nitril/Neopren Microflex 93-260 (EN374(JKL), EN388 (2000); Kat.III; AQL 0,65).

In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

In splash contact: Hand protection is not required. In normal use (no skin contact): No gloves required.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Filtering device with filter or ventilator filtering device of type: AX.

Thermal hazards:

Risk of explosion if heated under confinement.

Other protection measures:

Wear suitable protective clothing.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: clear

Odour: Alcohol

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	9	
Melting point	<i>not determined</i>	
Freezing point	<i>not determined</i>	
Initial boiling point and boiling range	78 - 137 °C	
Decomposition temperature	<i>not determined</i>	
Flash point	11 °C	

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Parameter	Value	① Method ② Remark
Evaporation rate	not determined	
Auto-ignition temperature	not determined	
Upper/lower flammability or explosive limits	not determined	
Vapour pressure	not determined	
Vapour density	not determined	
Density	not determined	
Relative density	not determined	
Bulk density	not determined	
Water solubility	partially miscible	
Partition coefficient: n-octanol/water	not determined	
Dynamic viscosity	not determined	
Kinematic viscosity	not determined	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions/Exothermic reaction with: Acid, Light metal (Formation of: Hydrogen).

10.4. Conditions to avoid

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

10.5. Incompatible materials

Oxidising agent.

10.6. Hazardous decomposition products

In case of warming: Flammable solvent vapor mixtures are possible.
Gases/vapours, toxic.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7
LD₅₀ oral: 5,050 mg/kg (Rat)
LD₅₀ dermal: 12,800 mg/m ³ (Rabbit)
LC₅₀ Acute inhalation toxicity (gas): >25,000 mg/kg 6 h (Rat)
butanone CAS No.: 78-93-3 EC No.: 201-159-0
LD₅₀ oral: 2,740 mg/kg (Rat) Toxicology and Applied Pharmacology. Vol. 19, Pg. 699, 1971.
LD₅₀ dermal: 6,480 mg/kg (Rabbit) Shell Chemical Company. Vol. MSDS-5390-4,
Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3
LD₅₀ oral: 4,700 mg/kg (Ratte) Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 26(6), Pg. 28, 1982.
LD₅₀ dermal: 10,600 mg/kg (Kaninchen) Toxicology of Drugs and Chemicals, Deichmann, W.B., New York, Academic Press, Inc., 1969 Vol. -, Pg. 731, 1969
(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2
LD₅₀ oral: 5,140 mg/kg (Ratte) AMA Archives of Industrial Hygiene and Occupational Medicine. Vol. 9, Pg. 509, 1954
LD₅₀ dermal: 9,510 mg/kg (Kaninchen) American Industrial Hygiene Association Journal. Vol. 23, Pg. 95, 1962.

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2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1

LD₅₀ oral: 5,140 mg/kg (Ratte) ECHA

LD₅₀ dermal: >17,400 mg/kg (Guinea pig) ECHA

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:

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

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:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

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

LC₅₀: 9,640 mg/L 4 d (fish, Pimephales promelas (fathead minnow))

LC₅₀: 9,714 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

NOEC: 250 mg/L 4 d (Algae/water plant, Tetrahymena thermophila)

NOEC: 754 mg/L 2 d (Algae/water plant)

butanone CAS No.: 78-93-3 EC No.: 201-159-0

LC₅₀: 3,220 - 3,220 mg/L 4 d (fish, Pimephales promelas) Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984 Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Vol. 1. Center for Lake Superior Environmental Stud., Univ. of Wisconsin-Superior, Superior, WI :414

EC₅₀: 5,090 - 5,090 mg/L 2 d (crustaceans) Randall, T.L., and P.V. Knopp 1980. Detoxification of Specific Organic Substances by Wet Oxidation. J. Water Pollut. Control Fed. 52(8):2117-2130

EC₅₀: 2,029 mg/L 4 d (Algae/water plant) ECHA

NOEC: 68 mg/L 2 d (crustaceans) ECHA

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Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3

LC₅₀: 8,050 - 72,900 mg/L 4 d (fish, Ceriodaphnia dubia affinis) Mayes, M.A., H.C. Alexander, and D.C. Dill 1983. A Study to Assess the Influence of Age on the Response of Fathead Minnows in Static Acute Toxicity Tests. Bull. Environ. Contam. Toxicol. 31(2):139-147; Greene, M.W., and R.M. Kocan 1997. Toxicological Mechanisms of a Multicomponent Agricultural Seed Protectant in the Rainbow Trout (Oncorhynchus mykiss) and Fathead Minnow (Pimephales promelas). Can. J. Fish. Aquat. Sci. 54:1387-1390

LC₅₀: 6,900 - 1,000,000 mg/L 2 d (crustaceans, Daphnia magna) Gersich, F.M., F.A. Blanchard, S.L. Applegath, and C.N. Park 1986. The Precision of Daphnid (Daphnia magna Straus, 1820) Static Acute Toxicity Tests. Arch. Environ. Contam. Toxicol. 15(6):741-749; Cowgill, U.M., I.T. Takahashi, and S.L. Applegath 1985. A Comparison of the Effect of Four Benchmark Chemicals on Daphnia magna and Ceriodaphnia dubia affinis Tested at Two Different Temperatures. Environ. Toxicol. Chem. 4(3):415-422 (Author Communication Used)

(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2

LC₅₀: >1,000 mg/L 4 d (fish, Poecilia reticulata) ECHA

LC₅₀: >1,000 mg/L 4 d (fish, Pimephales promelas (fathead minnow)) ECHA

EC₅₀: >969 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) ECHA

NOEC: 1,930 mg/L 4 d (fish, Cyprinodon variegatus) ECHA

NOEC: ≥0.5 mg/L 21 d (crustaceans, Daphnia magna (Big water flea)) ECHA

NOEC: ≥969 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) ECHA

2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1

LC₅₀: 8.27 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))

LC₅₀: >4.5 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))

EC₅₀: 22.9 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

EC₅₀: >21.9 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

NOEC: 2.51 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))

NOEC: >4.5 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))

NOEC: 15.7 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))

NOEC: 10.3 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

12.2. Persistence and degradability

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

Biodegradation: Yes, rapidly

Remark: Empfohlener Wert der LOG KOW Datenbank

butanone CAS No.: 78-93-3 EC No.: 201-159-0

Biodegradation: Yes, rapidly

Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3

Biodegradation: Yes, rapidly

(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2

Biodegradation: Yes, rapidly

2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1

Biodegradation: Yes, rapidly

12.3. Bioaccumulative potential

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

Log K_{ow}: 0.05

butanone CAS No.: 78-93-3 EC No.: 201-159-0

Log K_{ow}: 0.3

Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3

Log K_{ow}: -1.36

(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2

Log K_{ow}: 0.004

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2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1

Log K_{ow}: 3.74

Bioconcentration factor (BCF): 136

12.4. Mobility in soil

No data available

12.5. 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: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

butanone CAS No.: 78-93-3 EC No.: 201-159-0

Results of PBT and vPvB assessment: —

Ethandiol CAS No.: 107-21-1 EC No.: 203-473-3

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

(2-methoxymethylethoxy)propanol CAS No.: 34590-94-8 EC No.: 252-104-2

Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1

Results of PBT and vPvB assessment: vPvB-substance.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

14 06 03 * other solvents and solvent mixtures

*: Evidence for disposal must be provided.

Directive 2008/98/EC (Waste Framework Directive)

HP 3 Flammable

Waste code packaging

15 01 06 mixed packaging

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

Other disposal recommendations:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.2. Additional information

Return to Distributor..

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

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 640D Limited quantity (LQ): 1 L Hazard identification number (Kemler No.): 33 Classification code: F1 Tunnel restriction code: (D/E) Remark: -	Special Provisions: 640D Limited quantity (LQ): 1 L Classification code: F1	Special Provisions: 640D Limited quantity (LQ): 1 L EmS-No.: F-E, S-E	Special Provisions: 640D Limited quantity (LQ): 1 L

14.7. Maritime transport in bulk according to IMO instruments

not determined

Additional information:

-

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented.

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

- P5a Flammable Liquids, Category 1 or 2
- P5b Flammable liquids
- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b

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

Volatile organic compounds (VOC) content in percent by weight: 95.5 weight-%

15.1.2. National regulations

[GB] National regulations

Other regulations, restrictions and prohibition regulations

Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

Regulation 850/2004/EC on persistent organic pollutants (POP)

Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

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15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

For abbreviations and acronyms, see ECHA: Guidance on information requirements and chemical safety assessment, Chapter R.20 (list of terms and abbreviations).

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

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

16.6. Training advice

No data available

16.7. Additional information

The information provided in this safety data sheet is correct to the best of our knowledge at the time of going to press. This information is intended to provide guidance for the safe handling, storage, processing, transport and disposal of the product mentioned in this safety data sheet. The information is not transferable to other products. If the product is mixed with other materials, mixed or processed, or subjected to processing, the data contained in this safety data sheet can not be transferred to the new material thus produced unless otherwise expressly stated otherwise.