

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 29 Aug 2022

Print date: 21 Sep 2022

Version: 0.1

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



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Lumosens AS

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

1.1. Product identifier

Trade name/designation:

Lumosens AS

Article No.:

AS10100

UFI:

14YV-501H-400J-VVWQ

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

Use of the substance/mixture:

Disinfectant

limited virucide (against enveloped viruses)

Relevant identified uses:

Sector of uses [SU]

SU 20: Health services

Product Categories [PC]

PC 39: Cosmetics, personal care products

Process categories [PROC]

PROC 19: Manual activities involving hand contact

1.3. Details of the supplier of the safety data sheet

Manufacturer:

FSG Schäfer GmbH

Boschstraße 14

48703 Stadtlohn

GERMANY

Telephone: +49 (0) 25 63 - 93 95 - 0

Telefax: +49 (0) 25 63 - 93 95 - 25

E-mail: verkauf@fsg-schaefer.de

Website: www.fsg-schaefer.de

E-mail (competent person): sdb@fsg-schaefer.de

Only for information: National Poisons Information Service (Birmingham Unit): 844 892 0111

1.4. Emergency telephone number

24h: Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department., Office FSG: +49 (0) 2563 93950. (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.	

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2.2. Label elements

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

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/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:

60,1 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

4,0 % 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 Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5	ethanol Flam. Liq. 2 (H225) Danger	35 - < 70 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 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	0 - ≤ 1.53 weight-%
CAS No.: 107-21-1 EC No.: 203-473-3 Index No.: 603-027-00-1 REACH No.: 01-2119456816-28	Ethandiol Acute Tox. 4 (H302) Warning	0 - ≤ 1 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 7722-84-1 EC No.: 231-765-0 Index No.: 008-003-00-9	hydrogen peroxide Acute Tox. 4 (H332, H302), Ox. Liq. 1 (H271), Skin Corr. 1A (H314) Danger Specific concentration limit (SCL) Ox. Liq. 1, Skin Corr. 1A; H271-H314: C ≥ 70% Ox. Liq. 2, Skin Corr. 1B; H272-H314: 50% ≤ C < 70% Skin Irrit. 2; H315: 35% ≤ C < 50% Eye Dam. 1; H318: C ≥ 8% Eye Irrit. 2; H319: 5% ≤ C < 8% STOT SE 3; H335: C ≥ 35%	0 - < 0.68 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. Do not leave affected person unattended. If unconscious but breathing normally, place in recovery position and seek medical advice.

Following inhalation:

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

In case of skin contact:

In full contact: Generally, the product is not skin irritating. The exposure frequency, duration and number of exposed persons shall be minimised.

After eye contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

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 monoxide Carbon dioxide (CO₂), Pyrolysis products, toxic, carbon black

In case of fire: Gases/vapours, toxic.

5.3. Advice for firefighters

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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

In full contact: Remove persons to safety.

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 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:

After drying the residue is: 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:

In full contact Do not breathe gas/fumes/vapour/spray. 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:

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

Environmental precautions:

Discharge into the environment must be avoided.

Advices on general occupational hygiene

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:

Keep/Store only in original container.

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,

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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.

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:

Observe instructions for use. Wet hands completely with LUMOSENS before breaks and at the end of work. Also think of your wrists and the spaces between your fingers. Rub in LUMOSENS for drying. Use fatty skin care products after work.

Industrial sector specific solutions:

Disinfectant cleaners, other

GISCODE:

G00

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	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm
WEL (GB)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,920 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	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	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)

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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
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	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.5 mg/m ³) ② 2 ppm (3 mg/m ³)
WEL (GB)	hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	① 1 ppm (1.4 mg/m ³) ② 2 ppm (2.8 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
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	950 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	114 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	1,900 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	950 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	343 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	206 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	87 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	87 mg/kg bw/day	① DNEL worker ② Acute - 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

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Substance name	DNEL value	① DNEL type ② Exposure route
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
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
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
L-(+)-Milchsäure CAS No.: 79-33-4 EC No.: 201-196-2	0.592 g/m ³	① DNEL worker ② Acute - inhalation, local effects
L-(+)-Milchsäure CAS No.: 79-33-4 EC No.: 201-196-2	0.296 g/m ³	① DNEL Consumer ② Acute - inhalation, local effects
L-(+)-Milchsäure CAS No.: 79-33-4 EC No.: 201-196-2	35.4 mg/kg	① DNEL Consumer ② Acute - oral, systemic effects
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	1.4 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	0.21 µg/L	① DNEL Consumer ② Long-term - inhalation, local effects
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	3 mg/m ³	① DNEL worker ② Acute - inhalation, local effects

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hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	1.93 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
Substance name	PNEC Value	① PNEC type
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	0.96 mg/L	① PNEC aquatic, freshwater
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	0.76 mg/L	① PNEC aquatic, marine water
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	580 mg/L	① PNEC sewage treatment plant
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	3.6 mg/kg	① PNEC sediment, freshwater
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	0.63 mg/kg	① PNEC soil, freshwater
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
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
L-(+)-Milchsäure CAS No.: 79-33-4 EC No.: 201-196-2	1.3 mg/L	① PNEC aquatic, freshwater
L-(+)-Milchsäure CAS No.: 79-33-4 EC No.: 201-196-2	10 mg/L	① PNEC sewage treatment plant
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	12.6 µg/L	① PNEC aquatic, freshwater
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	12.6 µg/L	① PNEC aquatic, marine water
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	4.66 mg/L	① PNEC sewage treatment plant
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	0.047 mg/kg	① PNEC sediment, freshwater
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	0.047 mg/kg	① PNEC sediment, marine water
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	0.0023 mg/kg	① PNEC soil
hydrogen peroxide CAS No.: 7722-84-1 EC No.: 231-765-0	13.8 µg/L	① PNEC aquatic, intermittent release

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.

8.2.2. Personal protection equipment

Eye/face protection:

In full contact Eye glasses with side protection EN 166.

Skin protection:

No special measures are necessary. No concerns when using usable quantities.

In full contact: Tested protective gloves must be worn. EN ISO 374. Suitable material: NBR (Nitrile rubber)

Thickness of the glove material >0,7. Breakthrough time: >480 min.

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.

Thermal hazards:

Risk of explosion if heated under confinement.

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: colourless

Odour: Ethanol

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Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7	20 °C	
Melting point	<i>not determined</i>		
Freezing point	<i>not determined</i>		
Initial boiling point and boiling range	78 °C		
Decomposition temperature	<i>not determined</i>		
Flash point	≈ 12 °C		① DIN 51755
Evaporation rate	<i>not determined</i>		
Auto-ignition temperature	<i>not determined</i>		
Upper/lower flammability or explosive limits	3.5 - 15 Vol-%		① Ethanol
Vapour pressure	<i>not determined</i>		
Vapour density	<i>not determined</i>		
Density	0.86 - 0.87 g/cm ³	20 °C	
Relative density	<i>not determined</i>		
Bulk density	<i>not determined</i>		
Water solubility	miscible		
Partition coefficient: n-octanol/water	<i>not determined</i>		
Dynamic viscosity	<i>not determined</i>		
Kinematic viscosity	<i>not determined</i>		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Combustible substance, 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 metals, (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

No data available

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 hazard classes as defined in Regulation (EC) No 1272/2008

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,
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)

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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

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

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

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)

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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)

12.2. Persistence and degradability

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

Biodegradation: Yes, rapidly

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

Biodegradation: Yes, rapidly

Remark: Empfohlener Wert der LOG KOW Datenbank

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

Biodegradation: Yes, rapidly

12.3. Bioaccumulative potential

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

Log K_{OW}: 0.29

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

Log K_{OW}: 0.05

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

Log K_{OW}: -1.36

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

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

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.

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.

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

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Remark:

Изхвърляне съгласно Наредбата за предотвратяване и обезвреждане на отпадъци (VVEA, ehem. TVA) ШВЕЙЦАРИЯ - Код на отпадъците: 1101 - Нехалогенирани разтворители

Waste code packaging

15 01 04	metallic packaging
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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. Collect in closed and suitable containers for disposal.

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 1170	UN 1170	UN 1170	UN 1170
14.2. UN proper shipping name			
ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (ethanol Mixtures)	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol Mixtures)	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol Mixtures)	ETHANOL (ETHYL ALCOHOL) or ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) (Ethanol Mixtures)
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: 144, 601 Limited quantity (LQ): 1 L Hazard identification number (Kemler No.): 33 Classification code: F1 Tunnel restriction code: (D/E) Remark: -	Special Provisions: 144, 601 Limited quantity (LQ): 1 L Classification code: F1 Remark: -	Special Provisions: 144, 601 Limited quantity (LQ): 1L	Special Provisions: 144, 601 Limited quantity (LQ): 1L

14.7. Maritime transport in bulk according to IMO instruments

not determined.

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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:

In full contact: 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: 63.9 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)

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 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.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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Hazard statements

H336	May cause drowsiness or dizziness.
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Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
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16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.