

SAFETY DATA SHEET

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

Revision date: 30 May 2023

Print date: 2 Jun 2023

Version: 0.2

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



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FSG-Green Solution Bio

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

1.1. Product identifier

Trade name/designation:

FSG-Green Solution Bio

Article No.:

GS20000

UFI:

A3DS-W18K-C00W-KHWE

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

Use of the substance/mixture:

Cleaner

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

Manufacturer:

FSG Schäfer GmbH

Boschstraße 14

48703 Stadthoehn

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 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:

25,4 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

92,3 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

32,2 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

25,4 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

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	38 - < 65 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 - < 3 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	1 - ≤ 2 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	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	1 - ≤ 2 weight-%
CAS No.: 34590-94-8 EC No.: 252-104-2	(2-methoxymethylethoxy)propanol Substance with a community workplace exposure limit.	0 - ≤ 0.324999 weight-%
CAS No.: 103-09-3 EC No.: 203-079-1	2-ethylhexyl acetate Skin Irrit. 2 (H315)  Warning	0 - < 0.04 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.

After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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.

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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.

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. 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.

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)".

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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.

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. Refrigerants, Lubricants, greases, release products.

Industrial sector specific solutions:

Stripper, irritant, containing solvents with skin absorptive substances.

GISCODE:

GG60

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
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)
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)
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)
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)

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8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
BMGV (GB) from 3 Jan 1900	butanone CAS No.: 78-93-3 EC No.: 201-159-0	70 µmol/L	① butan 2-one ② urine ③ end of exposure or end of shift

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
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
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
(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

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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	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
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

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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, 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
(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
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	0.0827 mg/L	① PNEC aquatic, intermittent release

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Substance name	PNEC Value	① PNEC type
2-ethylhexyl acetate CAS No.: 103-09-3 EC No.: 203-079-1	0.0377 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: Suitable material: Butyl caoutchouc (butyl rubber), Thickness of the glove material >0,7 mm, Breakthrough time: >480 min.

In splash contact: Hand protection is not required.

Tested protective gloves must be worn. EN ISO 374. 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.

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: colourless

Odour: Ethanol

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7	23 °C	
Melting point	-114 °C		
Freezing point	not determined		
Initial boiling point and boiling range	80 °C		
Decomposition temperature	not determined		
Flash point	12 °C		
Evaporation rate	not determined		
Auto-ignition temperature	not determined		
Upper/lower flammability or explosive limits	not determined		
Vapour pressure	not determined		

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Parameter	Value	at °C	① Method ② Remark
Vapour density	not determined		
Density	not determined		
Relative density	not determined		
Bulk density	not determined		
Water solubility	completely 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 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

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 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,
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., 1969Vol. -, Pg. 731, 1969
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)
(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.
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

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Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

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)

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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)

(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

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

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

Biodegradation: Yes, rapidly

Remark: Empfohlener Wert der LOG KOW Datenbank

(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

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

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

Log K_{OW}: 0.05

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

Log K_{OW}: 0.004

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

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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: —		
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.		
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.		
(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
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*: 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 06	mixed 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.

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
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S. (Ethanol Mixtures)	FLAMMABLE LIQUID, N.O.S. (Ethanol Mixtures)	FLAMMABLE LIQUID, N.O.S. (Ethanol Mixtures)	FLAMMABLE LIQUID, N.O.S. (Ethanol Mixtures)

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.3. Transport hazard class(es)			
			
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)	Special Provisions: 640D Limited quantity (LQ): 1 L Classification code: -	Special Provisions: 640D Limited quantity (LQ): 1L EmS-No.: F-E, S-D	Special Provisions: 640D Limited quantity (LQ): 1 L

14.7. Maritime transport in bulk according to IMO instruments
not determined.

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: 72.4 weight-%

15.1.2. National regulations

[GB] National regulations

Other regulations, restrictions and prohibition regulations

Control of Substances Hazardous to Health (COSHH) Regulations

<http://www.airquality.co.uk/>

The Dangerous Substances and Explosive Atmospheres Regulations 2002 (DSEAR)

EH40/2005 Workplace exposure limits

15.2. Chemical Safety Assessment

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

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SECTION 16: Other information

* 16.1. Indication of changes

1.3.	Details of the supplier of the safety data sheet
1.4.	Emergency telephone number
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
5.1.	Extinguishing media
5.3.	Advice for firefighters
7.3.	Specific end use(s)
8.1.	Control parameters
12.3.	Bioaccumulative potential
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

* 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
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
ECHA	European Chemicals Agency
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
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PC	Product category
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SU	use category
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

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

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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.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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

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.

* Data changed compared with the previous version.