

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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FSG-Anti-Adhesive Agent, Type TR 8 Plus

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

1.1. Product identifier

Trade name/designation:

FSG-Anti-Adhesive Agent, Type TR 8 Plus

Article No.:

TR26000

UFI:

370A-Q2MF-3006-HT8H

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

Use of the substance/mixture:

Antiadhesive-Agent

Relevant identified uses:

Sector of uses [SU]

SU 6a: Manufacture of wood and wood products

Product Categories [PC]

PC 24: Lubricants, greases, release products

Article categories [AC]

AC 11: Wood articles

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.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Germ cell mutagenicity (<i>Muta. 1B</i>)	H340: May cause genetic defects.	
Carcinogenicity (<i>Carc. 1B</i>)	H350: May cause cancer.	

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2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS08
Health hazard

Signal word: Danger

Hazard statements for physical hazards

H225	Highly flammable liquid and vapour.
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Hazard statements for health hazards

H304	May be fatal if swallowed and enters airways.
------	---

H340	May cause genetic defects.
------	----------------------------

H350	May cause cancer.
------	-------------------

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.
------	--

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

Precautionary statements Response

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

P331	Do NOT induce vomiting.
------	-------------------------

Precautionary statements Disposal

P501	Dispose of contents/container to Disposal methods.
------	--

Special rules for supplemental label elements for certain mixtures:

82,5 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

10,9 % 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	48 - < 95 weight-%
EC No.: 920-750-0 Index No.: 649-328-00-1 REACH No.: 01-2119473851-33-0XXX	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Asp. Tox. 1 (H304), Carc. 1B (H350), Muta. 1B (H340) Danger	4 - < 9 weight-%

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
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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 927-632-8 REACH No.: 01-2119457736-27-0000	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics Asp. Tox. 1 (H304)  Danger	2 - < 3.75 weight-%
EC No.: 920-107-4 REACH No.: 01-2119453414-42	Hydrocarbons, C12-C15, n-alkanes, isoalkanes < 2% aromatics Asp. Tox. 1 (H304)  Danger	2 - < 3.75 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 - < 2.55 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. Warning First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. Get medical advice/attention if you feel unwell.

In case of skin contact:

Take off immediately all contaminated clothing. 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.

Following ingestion:

Rinse mouth. Get medical advice/attention if you feel unwell. Observe risk of aspiration if vomiting occurs. Let 1 glass of water be drunken in little sips (dilution effect). Do NOT induce vomiting. Get immediate medical advice/attention.

Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

Pneumonia, Pulmonary oedema.

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.

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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.

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 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. Repeated exposure may cause skin dryness or cracking. 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:

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

Environmental precautions:

Discharge into the environment must be avoided.

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.

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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.

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:

Lubricants, greases, release products,

Industrial sector specific solutions:

Anti-corrosive paints, containing solvents, aromatics removed

GISCODE:

BS40

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)

8.1.2. Biological limit values

No data available

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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
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics EC No.: 920-750-0	2,035 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics EC No.: 920-750-0	608 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics EC No.: 920-750-0	773 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics EC No.: 920-750-0	699 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics EC No.: 920-750-0	699 mg/kg bw/day	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

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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	31 mg/kg bw/ day	① DNEL worker ② Long-term - oral, systemic 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

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:

Tested protective gloves must be worn. EN ISO 374.

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In full contact: Suitable material: Butyl caoutchouc (butyl rubber), Thickness of the glove material >0,7 mm. Breakthrough time: >480 min.
In splash contact: Suitable material: Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber), Thickness of the glove material >0,4 mm. Breakthrough time: >120 min.
The following gloves may be used: Ultranitril 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.

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	① Method ② Remark
pH	7	
Melting point	not determined	
Freezing point	not determined	
Initial boiling point and boiling range	78 - 300 °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	
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

Combustible substance, Highly flammable liquid and vapour.

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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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC No.: 920-750-0
LD₅₀ oral: >5,000 mg/kg (Rat) MSDS Distributor	
LD₅₀ dermal: 2,800 - 3,100 mg/kg (Rat) ECHA	
LC₅₀ Acute inhalation toxicity (vapour): 23.3 mg/L 4 h (Rat) ECHA	
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC No.: 927-632-8
LD₅₀ oral: >5,000 mg/kg (Rat) Under the test conditions, MRD-83-207 is not classified according to the criteria of Annex VI to the Directive 67/548/EEC and CLP Regulation 1272/2008.	
LD₅₀ dermal: >1,082 mg/kg (Rat) MRD83-207 is not classified according to the criteria of Annex VI to the Directive 67/548/EEC and CLP Regulation 1272/2008.	
LC₅₀ Acute inhalation toxicity (gas): ≥5.266 - 5.991 mg/L 4 h (Rat) Under the conditions of the test, C14-C16 n-Paraffins are not classified according to the criteria of Annex VI to the Directive 67/548/EEC and EU GHS.	
Hydrocarbons, C12-C15, n-alkanes, isoalkanes < 2% aromatics	EC No.: 920-107-4
LD₅₀ oral: >5,000 - 15,000 mg/kg (rat) The LD ₅₀ for MRD-77-10 following oral gavage was >15 g/kg. Classification as an oral toxicant is not warranted under the new Regulation (EC) 1272/2008 on classification, labeling and packaging of substances and mixtures (CLP) or under Directive 67/518/EEC for dangerous substances and Directive 1999/45/EC for preparations.	
LD₅₀ dermal: ≥3,160 mg/kg (rabbit)	
LC₅₀ Acute inhalation toxicity (gas): >0.004951 - 0.0093 g/m ³ 4 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,	

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:

May cause genetic defects.

Carcinogenicity:

May cause cancer.

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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:

May be fatal if swallowed and enters airways.

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC No.: 920-750-0
LC₅₀: 10 – 30 mg/L 3 d (fish) ECHA	
EC₅₀: 4.6 – 10 mg/L 2 d (crustaceans) ECHA	
NOEC: 0.17 mg/L 21 d (crustaceans) ECHA	
EC₅₀: 10 – 30 mg/L 3 d (Algae/water plant) ECHA	
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC No.: 927-632-8
LC₅₀: 1,000 mg/L 4 d (crustaceans, Corophium volutator) mg/kg Sediment DW	
LC₅₀: >1,082 – 87,556 mg/L 4 d (fish, Scophthalmus maximus) LL50/LC ₅₀ see GUIDANCE DOCUMENT ON AQUATIC TOXICITY TESTING OF DIFFICULT SUBSTANCES AND MIXTURES"	
EC₅₀: 1,000 – 10,000 mg/L 4 d (Algae/water plant) LL50/LC ₅₀ see GUIDANCE DOCUMENT ON AQUATIC TOXICITY TESTING OF DIFFICULT SUBSTANCES AND MIXTURES"	
Hydrocarbons, C12-C15, n-alkanes, isoalkanes < 2% aromatics	EC No.: 920-107-4
LC₅₀: >1,000 mg/L 2 d (fish, Oncorhynchus mykiss) ECHA	
EC₅₀: >1,000 mg/L 3 d (Algae/water plant) ECHA	
NOEC: >1,000 mg/L -∞ h (fish, Oncorhynchus mykiss) NOELR (No Observed Effect Loading Rate)	
NOEC: >1,000 mg/L -∞ h (crustaceans, Daphnia magna) NOELR (No Observed Effect Loading Rate)	
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	

12.2. Persistence and degradability

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC No.: 920-750-0
Biodegradation: Yes, rapidly	
Remark: Inherently biodegradable. bioaccumulation possible.	
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC No.: 927-632-8
Biodegradation: Yes, rapidly	
Remark: readily biodegradable	
Hydrocarbons, C12-C15, n-alkanes, isoalkanes < 2% aromatics	EC No.: 920-107-4
Biodegradation: Yes, rapidly	
Remark: Bioakkumulation ist möglich.	
butanone	CAS No.: 78-93-3 EC No.: 201-159-0
Biodegradation: Yes, rapidly	

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12.3. Bioaccumulative potential

Hydrocarbons, C12-C15, n-alkanes, isoalkanes < 2% aromatics	EC No.: 920-107-4
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Log K _{OW} : 5.03

butanone	CAS No.: 78-93-3	EC No.: 201-159-0
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Log K _{OW} : 0.29

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	EC No.: 920-750-0
---	-------------------

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

Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC No.: 927-632-8
--	-------------------

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

Hydrocarbons, C12-C15, n-alkanes, isoalkanes < 2% aromatics	EC No.: 920-107-4
---	-------------------

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
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Results of PBT and vPvB assessment: —

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. Collect in closed and suitable containers for disposal.

13.2. Additional information

Return to Distributor..

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SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, LIQUID, N.O.S.)	FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, LIQUID, N.O.S.)	FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, LIQUID, N.O.S.)	FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, LIQUID, N.O.S.)
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
		 MARINE POLLUTANT	
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 Remark: -	Special Provisions: 640D Limited quantity (LQ): 1L EmS-No.: F-E, S-E	Special Provisions: 640D Limited quantity (LQ): 1L

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: 99.2 weight-%

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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.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Germ cell mutagenicity (<i>Muta. 1B</i>)	H340: May cause genetic defects.	
Carcinogenicity (<i>Carc. 1B</i>)	H350: May cause cancer.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.

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.