

SAFETY DATA SHEET

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

Revision date: 29 May 2025

Print date: 7 Jul 2025

Version: 2.5



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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:

670A-52C6-A00X-J119

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

Use of the substance/mixture:

Antiadhesive-Agent

Relevant identified uses:

Life cycle stage [LCS]

IS: Use at industrial sites

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

distributor:

BLAŽIČ d.o.o.

Zgornji Brnik 368
4210 Aerodrom Brnik
Slovenia

Telephone: +386 1 519 92 60

Telefax: +386 1 507 63 79

E-mail: info@blazic.eu

Website: www.blazic.eu

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

Navodilo v primeru zdravstvene orozenosti: nemuoma se posvetrovati z osebnim dli dežumim zdravrikom, le v rimeru življenjske orožensti pokliczti 112.

1.4. Emergency telephone number

BLAŽIČ d.o.o.

Zgornji Brnik368

4210 Aerodrom Brnik

Slovenia, Dodatne informacije nz št +386 1 519 92 60 med. 8:00 pm in 15:00 pm (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.	On basis of test data.
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

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* 2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics ; Hydrocarbons, C12-C15, n-alkanes, isoalkanes < 2% aromatics

Hazard statements for physical hazards

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

H302	Harmful if swallowed.
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Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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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.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/Personal protection equipment.

Precautionary statements Response

P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P370 + P378	In case of fire: Use Foam to extinguish.

Special rules for supplemental label elements for certain mixtures:

26,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (oral).

85,5 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

32,0 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

26,0 % percent of the mixture consists of components of unknown hazards to the aquatic environment.

2.3. Other hazards

Adverse human health effects and symptoms:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Description:

Mixture of following listed substances with nonhazardous additions.

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Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 920-750-0 REACH No.: 01-2119473851-33-XXXX	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) 2,800 - 3,100 mg/kg ATE (inhalation, vapour) 23.3 mg/L	4 - ≤ 7.5 weight-%
EC No.: 927-632-8 REACH No.: 01-2119457736-27	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics Asp. Tox. 1 (H304) Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 1,082 mg/kg ATE (inhalation, gases) ≥ 5.266 - 5.991 mg/L	2 - ≤ 3.750008 weight-%
EC No.: 920-107-4 REACH No.: 01-2119453414-42	Hydrocarbons, C12-C15, n-alkanes, isoalkanes < 2% aromatics Asp. Tox. 1 (H304) Danger Acute Toxicity Estimate ATE (oral) > 5,000 - 15,000 mg/kg ATE (dermal) ≥ 3,160 mg/kg ATE (inhalation, gases) > 0.004951 - 0.0093 g/m ³	1 - < 2.25 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) Danger Acute Toxicity Estimate ATE (oral) 2,740 mg/kg ATE (dermal) 6,480 mg/kg	0 - ≤ 0.85 weight-%
CAS No.: 110-82-7 EC No.: 203-806-2 Index No.: 601-017-00-1	cyclohexane Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) 5,000 mg/kg ATE (dermal) 2,000 mg/kg ATE (inhalation, gases) 5,540 ppmV ATE (inhalation, vapour) 32.88 mg/L	0 - ≤ 0.15 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:

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

In case of skin contact:

Take off immediately all contaminated clothing.
After contact with skin, wash immediately with plenty of water and soap.

Following ingestion:

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

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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

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.

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

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.

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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.

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.

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

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SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
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)
SI	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 (računati je treba z možnostjo prodiranja skozi kožo) K, Y, BAT, EU1
IOELV (EU)	cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	① 200 ppm (700 mg/m ³)
SI from 4 Dec 2018	cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	① 200 ppm (700 mg/m ³) ② 800 ppm (2,800 mg/m ³) ⑤ BAT, EU2

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
BAT (SI) from 11 May 2021	butanone CAS No.: 78-93-3 EC No.: 201-159-0	2 mg/L	① metil etil keton ② urin ③ ob koncu delovne izmene
BAT (SI) from 11 May 2021	cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	150 mg/g kreatinina	① 1,2-cikloheksandiol (pohidrolizi) ② urin ③ po več zaporednih delavnikih, ob koncu delovne izmene

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
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

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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	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
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	700 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	206 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	1,400 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	412 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	700 mg/m ³	① DNEL worker ② Long-term - inhalation, local effects
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	206 mg/m ³	① DNEL Consumer ② Long-term - inhalation, local effects
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	1,400 mg/m ³	① DNEL worker ② Acute - inhalation, local effects
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	412 mg/m ³	① DNEL Consumer ② Acute - inhalation, local effects
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	2,016 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	1,186 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	59.4 mg/kg bw/day	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

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Substance name	PNEC Value	① PNEC type
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
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	44.7 µg/L	① PNEC aquatic, freshwater
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	4.47 µg/L	① PNEC aquatic, marine water
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	3.24 mg/L	① PNEC sewage treatment plant
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	3.6 mg/kg	① PNEC sediment, freshwater
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	0.36 mg/kg	① PNEC sediment, marine water
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	0.694 mg/kg	① PNEC soil
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	9 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. 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.

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.

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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

Form: Liquid

Colour: colourless

Odour: Ethanol

flammability: Yes

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	78 - 300 °C		
Flash point	12 °C		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	0.87 g/cm ³	20 °C	
Bulk density	not applicable		
Water solubility	partially miscible		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

* 10.1. Reactivity

Combustible substance, Highly flammable liquid and vapour. 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.

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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

Toxicological information

Acute Toxicity Estimate for Mixtures

ATE (dermal): 4,183.7 mg/kg

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 LD₅₀ 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/m³ 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,

cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2

LD₅₀ oral: 5,000 mg/kg (Rat)

LD₅₀ dermal: 2,000 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (gas): 5,540 ppmV 4 h (Rat)

LC₅₀ Acute inhalation toxicity (vapour): 32.88 mg/L 4 h (Rat)

Acute oral toxicity:

Harmful if swallowed.

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.

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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:

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

Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics EC No.: 920-750-0
LC ₅₀ : 10 - 30 mg/L 3 d (fish) ECHA
EC ₅₀ : 4.6 - 10 mg/L 2 d (crustaceans) ECHA
EC ₅₀ : 10 - 30 mg/L 3 d (Algae/water plant) ECHA
NOEC: 0.17 mg/L 21 d (crustaceans) ECHA
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics EC No.: 927-632-8
LC ₅₀ : 1,000 mg/L 4 d (crustaceans, Corophium volutator) mg/kg Sediment DW
LC ₅₀ : >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"
EC ₅₀ : 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
LC ₅₀ : >1,000 mg/L 2 d (fish, Oncorhynchus mykiss) ECHA
EC ₅₀ : >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
LC ₅₀ : 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
EC ₅₀ : 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
EC ₅₀ : 2,029 mg/L 4 d (Algae/water plant) ECHA
NOEC: 68 mg/L 2 d (crustaceans) ECHA
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2
LC ₅₀ : 4.53 mg/L 4 d (fish)
EC ₅₀ : 4.36 mg/L 2 d (crustaceans)
NOEC: 0.952 mg/L 3 d (Algae/water plant)

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

* 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.

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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

cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2

Biodegradation: Yes, rapidly

* 12.3. Bioaccumulative potential

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

Log K_{OW}: 5.03

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

Log K_{OW}: 0.3

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

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

cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2

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 *	(14) WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08) (06) waste organic solvents, refrigerants and foam/aerosol propellants (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
HP 14	Ecotoxic

Remark:

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

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Waste code packaging

15 01 06	(15) WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED (01) packaging (including separately collected municipal packaging waste) (06) mixed packaging
----------	--

Waste treatment options

Appropriate disposal / Product:

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

Appropriate disposal / Package:

Completely emptied packages can be recycled.

Other disposal recommendations:

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Collect in closed and suitable containers for disposal.

13.2. Additional information

Return to Distributor.. Allow the product to evaporate under a fresh air supply. Households can return chemicals to the retail trade, to the collection points or to special collectibles of the municipality or the canton, up to 10Kg per year for the end user free of charge (Switzerland). To protect the environment, do not dispose of the drain.

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.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE 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)	Special Provisions: 640D Limited quantity (LQ): 1 L Classification code: F1	Special Provisions: 640D Limited quantity (LQ): 1 L EmS-No.: F-E, S-E	Special Provisions: 640D Limited quantity (LQ): 1 L

14.7. Maritime transport in bulk according to IMO instruments

not determined.

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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:

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):

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: 73.9 weight-%

15.1.2. National regulations

[SI] National regulations

Other regulations, restrictions and prohibition regulations

[\P:a0959181-3dd2-448e-8186-c33aa8dc0b55\](#)

[\P:d206fb0c-ce42-4d5c-8ffc-0127a253b285\](#)

[\P:eb7a6d4f-81b7-40c9-a3bd-975c6431bcd2\](#)

[\P:7cec6848-b577-43e9-8bdf-67f79be232a5\](#)

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

2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
6.2.	Environmental precautions
7.1.	Precautions for safe handling
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
10.1.	Reactivity
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
13.1.	Waste treatment methods
16.1.	Indication of changes
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

16.2. Abbreviations and acronyms

AC	Article Category
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

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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
IUCLID	International Uniform Chemical Information Database
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).

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.	On basis of test data.
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	Calculation method.
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	Calculation method.

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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Hazard statements

H411	Toxic to aquatic life with long lasting effects.
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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.

* Data changed compared with the previous version.