

SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1567

FSG Schäfer GmbH

Instandsetzungs-Materialien für Möbeloberflächen



Revision date: 22 May 2023

Print date: 5 Feb 2024

Version: 0.1

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FSG-Plastic Cleaner, Type DN/AS

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

* 1.1. Product identifier

Trade name/designation:

FSG-Plastic Cleaner, Type DN/AS

Article No.:

RE18000

UFI:

YDUK-M1TP-V002-MUTC

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

Use of the substance/mixture:

Cleaner

Detergents and cleaning products (including solvent based),

Commercial use of general purpose surface cleaners.

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 35: Washing and cleaning 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 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

distributor:

Ostermann France SAS

FR

2, rue de l'Atelier

38160 Saint-Marcellin

France

Telephone: + 33 (0) 4 76 36 57 60

Telefax: + 33 (0) 4 76 36 57 61

E-mail: vente.fr@ostermann.eu

Website: www.ostermann.eu

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	

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2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:

n-Hexan; Alkylammoniummethosulfat; Kohlenwasserstoffe C7-C9, n-Alkane, Isoalkane, Cyclene;
Kohlenwasserstoffe, C9-C10, n-Alkane, Isoalkane, Cyclene, < 2% Aromaten

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.
P240	Ground/bond container and receiving equipment.
P273	Avoid release to the environment.
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.
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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:

80,9 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

3,3 % 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.

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Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Concentration
CAS No.: 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 REACH No.: 01-2119473851-33-0XXX	Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger	4 - ≤ 7.84 weight-%
EC No.: 927-241-2 REACH No.: 01-2119471843-32-XXXX	Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336) Danger	3 - ≤ 5.6 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 - < 2.51 weight-%
CAS No.: 1474044-65-9 EC No.: 939-607-9 REACH No.: 01-2119471849-20	Quaternary ammonium compounds, C12-14 (even- numbered) - alkylethyldimethyl, ethylsulphate Acute Tox. 3 (H311), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Skin Corr. 1C (H314) Danger M-factor (acute): 10 M-factor (chronic): 1	0 - ≤ 0.3 weight-%
CAS No.: 110-54-3 EC No.: 203-777-6 Index No.: 601-037-00-0	n-hexane Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), Repr. 2 (H361f***), STOT RE 2 (H373**), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger Specific concentration limit (SCL) STOT RE 2; H373: C ≥ 5%	0 - ≤ 0.2 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	0 - ≤ 0.16 weight-%
CAS No.: 5392-40-5 EC No.: 226-394-6 Index No.: 605-019-00-3	citral Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Warning	0 - ≤ 0.05586 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:

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. In case of skin irritation, consult a physician. 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

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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

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.

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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. Keep away from sources of ignition - No smoking.

Measures to prevent aerosol and dust generation:

If possible, do not use for spraying. Wipe for cleaning

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:

Detergents and cleaning products (including solvent based),
Commercial use of general purpose surface cleaners.
If possible, do not use for spraying.

Industrial sector specific solutions:

Stripper, irritant, containing solvents with skin absorptive substances.

GISCODE:

GG60

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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
WEL (GB)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,920 mg/m ³)
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)	n-hexane CAS No.: 110-54-3 EC No.: 203-777-6	① 20 ppm (72 mg/m ³)
WEL (GB)	n-hexane CAS No.: 110-54-3 EC No.: 203-777-6	① 20 ppm (72 mg/m ³)
IOELV (EU)	cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	① 200 ppm (700 mg/m ³)
WEL (GB)	cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	① 100 ppm (350 mg/m ³) ② 300 ppm (1,050 mg/m ³)

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
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

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Substance name	DNEL value	① DNEL type ② Exposure route
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
Hydrocarbons, C9-C10, containing n- alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	185 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C9-C10, containing n- alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	77 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C9-C10, containing n- alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	46 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C9-C10, containing n- alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	300 mg/kg bw/ day	① DNEL worker ② Long-term - oral, systemic effects
Hydrocarbons, C9-C10, containing n- alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2	46 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
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

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Substance name	DNEL value	① DNEL type ② Exposure route
Quaternary ammonium compounds, C12-14 (even-numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	3.32 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Quaternary ammonium compounds, C12-14 (even-numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	0.98 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Quaternary ammonium compounds, C12-14 (even-numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	4.7 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Quaternary ammonium compounds, C12-14 (even-numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	2.83 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Quaternary ammonium compounds, C12-14 (even-numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	2.83 mg/kg bw/day	① DNEL Consumer 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

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butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	136 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	29 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	958 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	340 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	19 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	8 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
citral CAS No.: 5392-40-5 EC No.: 226-394-6	9 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
citral CAS No.: 5392-40-5 EC No.: 226-394-6	2.7 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
citral CAS No.: 5392-40-5 EC No.: 226-394-6	1.7 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
citral CAS No.: 5392-40-5 EC No.: 226-394-6	1 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
citral CAS No.: 5392-40-5 EC No.: 226-394-6	0.14 mg/cm ²	① DNEL worker ② Long-term - dermal, local effects
citral CAS No.: 5392-40-5 EC No.: 226-394-6	0.14 mg/cm ²	① DNEL Consumer ② Long-term - dermal, local effects
citral CAS No.: 5392-40-5 EC No.: 226-394-6	0.6 mg/kg bw/ day	① DNEL Consumer 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

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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
Quaternary ammonium compounds, C12-14 (even- numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	0.00068 mg/L	① PNEC aquatic, freshwater
Quaternary ammonium compounds, C12-14 (even- numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	0.000068 mg/L	① PNEC aquatic, marine water
Quaternary ammonium compounds, C12-14 (even- numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	0.9 mg/L	① PNEC sewage treatment plant
Quaternary ammonium compounds, C12-14 (even- numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	9.27 mg/kg	① PNEC sediment, freshwater
Quaternary ammonium compounds, C12-14 (even- numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	0.927 mg/kg	① PNEC sediment, marine water
Quaternary ammonium compounds, C12-14 (even- numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	7 mg/kg	① PNEC soil
Quaternary ammonium compounds, C12-14 (even- numbered) - alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9	0.00036 mg/L	① PNEC aquatic, intermittent release
cyclohexane CAS No.: 110-82-7 EC No.: 203-806-2	44.7 µg/L	① PNEC aquatic, freshwater

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Substance name	PNEC Value	① PNEC type
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
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	813 µg/L	① PNEC aquatic, freshwater
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	81.3 µg/L	① PNEC aquatic, marine water
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	1.554 g/m ³	① PNEC sewage treatment plant
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	3.61 mg/kg	① PNEC sediment, freshwater
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	0.361 mg/kg	① PNEC sediment, marine water
butane-1,4-diol CAS No.: 110-63-4 EC No.: 203-786-5	8.13 mg/L	① PNEC aquatic, intermittent release
citral CAS No.: 5392-40-5 EC No.: 226-394-6	6.78 µg/L	① PNEC aquatic, freshwater
citral CAS No.: 5392-40-5 EC No.: 226-394-6	0.678 µg/L	① PNEC aquatic, marine water
citral CAS No.: 5392-40-5 EC No.: 226-394-6	1.6 mg/L	① PNEC sewage treatment plant
citral CAS No.: 5392-40-5 EC No.: 226-394-6	0.125 mg/kg	① PNEC sediment, freshwater
citral CAS No.: 5392-40-5 EC No.: 226-394-6	0.0125 mg/kg	① PNEC sediment, marine water
citral CAS No.: 5392-40-5 EC No.: 226-394-6	0.0209 mg/kg	① PNEC soil
citral CAS No.: 5392-40-5 EC No.: 226-394-6	67.8 µg/L	① PNEC aquatic, intermittent release

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* 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:

Check leak tightness/impermeability prior to use.

In full contact: Suitable material: Butyl caoutchouc (butyl rubber) >0,7 mm, Breakthrough time: >480 min.

In splash contact: Suitable material: Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber) >0,4mm, Breakthrough time: >120 min.

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

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: Lemon

Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	7	
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	78 - 137 °C	
Flash point	10 °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	No data available	

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Parameter	Value	① Method ② Remark
Bulk density	<i>not applicable</i>	
Water solubility	partially miscible	
Dynamic viscosity	<i>No data available</i>	
Kinematic viscosity	<i>No data available</i>	

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 toxicological effects

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, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2
LD₅₀ oral: >15,000 mg/kg (Rat) MSDS Distributor
LD₅₀ dermal: >5,000 mg/kg (Rabbit) MSDS Distributor
LC₅₀ Acute inhalation toxicity (dust/mist): >6.1 mg/L 4 h (Rat) MSDS Distributor
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,
Quaternary ammonium compounds, C12-14 (even-numbered) -alkylethyldimethyl, ethylsulphate CAS No.: 1474044-65-9 EC No.: 939-607-9
LD₅₀ oral: 570 – 600 mg/kg (Rat)
LD₅₀ dermal: 429 – 1,900 mg/kg (Rabbit)
n-hexane CAS No.: 110-54-3 EC No.: 203-777-6
LD₅₀ oral: 25,000 mg/kg (Rat) Industrial Health. Vol. 32, Pg. 145, 1994. (GESTIS)
LC₅₀ Acute inhalation toxicity (vapour): 169 mg/L 4 h (Rat) Annual Review of Pharmacology and Toxicology. Vol. 22, Pg. 145, 1982. (GESTIS)

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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.

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

LC₅₀: 10 - 30 mg/L 3 d (fish) ECHA

EC₅₀: 4.6 - 10 mg/L 2 d (crustaceans) ECHA

EC₅₀: 10 - 30 mg/L 3 d (Algae/water plant) ECHA

NOEC: 0.17 mg/L 21 d (crustaceans) ECHA

Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2

LC₅₀: 10 - ≤100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) MSDS Distributor

LC₅₀: 10 - ≤100 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) MSDS Distributor

LC₅₀: >100 mg/L (Algae/water plant) MSDS Distributor

LC₅₀: >1,000 mg/L (Mikroorganismen) MSDS Distributor

LC₅₀: >10 - <30 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))

EC₅₀: >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EL 50 SDB BR

EC₅₀: >22 - <46 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) EL 50 SDB BR

NOEC: <1 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) NOELR SDB BR

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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

Quaternary ammonium compounds, C12-14 (even-numbered) -alkylethyldimethyl, ethylsulphate

CAS No.: 1474044-65-9 EC No.: 939-607-9

LC₅₀: 0.0138 mg/L 4 d (fish) ECHA

EC₅₀: 0.036 mg/L 2 d (crustaceans) ECHA

NOEC: 0.01 mg/L 4 d (fish) ECHA

NOEC: 0.0322 mg/L 28 d (fish) ECHA

NOEC: 0.0068 - 0.0991 mg/L 21 d (crustaceans)

n-hexane CAS No.: 110-54-3 EC No.: 203-777-6

LC₅₀: 2.5 - 113 mg/L 4 d (fish, *Oncorhynchus mykiss* (Rainbow trout)) GESTIS

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

LC₅₀: 4.53 mg/L 4 d (fish)

EC₅₀: 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.

Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2

Biodegradation: Yes, rapidly

Remark: Bioakkumulation potentiell möglich, Schädlich für Fische.

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

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

Log K_{ow}: 0.3

Quaternary ammonium compounds, C12-14 (even-numbered) -alkylethyldimethyl, ethylsulphate

CAS No.: 1474044-65-9 EC No.: 939-607-9

Log K_{ow}: 3.26

n-hexane CAS No.: 110-54-3 EC No.: 203-777-6

Log K_{ow}: 3.9

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, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics EC No.: 927-241-2

Results of PBT and vPvB assessment: —

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

Results of PBT and vPvB assessment: —

Quaternary ammonium compounds, C12-14 (even- numbered) -alkylethyldimethyl, ethylsulphate

CAS No.: 1474044-65-9 EC No.: 939-607-9

Results of PBT and vPvB assessment: —

n-hexane CAS No.: 110-54-3 EC No.: 203-777-6

Results of PBT and vPvB assessment: —

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

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

*: Evidence for disposal must be provided.

Waste code packaging

15 01 06 mixed packaging

Waste treatment options

Appropriate disposal / Product:

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

Appropriate disposal / Package:

Completely emptied packages can be recycled.





Other disposal recommendations:

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

13.2. Additional information

Return to Distributor.,

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
UN 1993	UN 1993	UN 1993	UN 1993
14.2. UN proper shipping name			
FLAMMABLE LIQUID, N.O.S. (Gasoline Mixtures)	FLAMMABLE LIQUID, N.O.S. (Gasoline Mixtures)	FLAMMABLE LIQUID, N.O.S. (Gasoline Mixtures)	FLAMMABLE LIQUID, N.O.S. (Gasoline Mixtures)
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
II	II	II	II

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.5. Environmental hazards			
		MARINE POLLUTANT	
14.6. Special precautions for user			
Special Provisions: 640 D Limited quantity (LQ): 1 L Hazard identification number (Kemler No.): 33 Classification code: F1 Tunnel restriction code: (D/E) Remark: -	Special Provisions: 640 D Limited quantity (LQ): 1 L Classification code: F1 Remark: -	Special Provisions: 640D Limited quantity (LQ): 1 L EmS-No.: F-E, S-E	Special Provisions: 640D Limited quantity (LQ): 1 L

14.7. Maritime transport in bulk according to IMO instruments

not determined.

Additional information:

-

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:

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: 98.3 weight-%

15.1.2. National regulations

[GB] National regulations

Other regulations, restrictions and prohibition regulations

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

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

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

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

16.1. Indication of changes

1.1.	Product identifier
3.2.	Mixtures
8.2.	Exposure controls
10.6.	Hazardous decomposition products

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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
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
OECD	Organisation for Economic Cooperation and Development
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
SCL	Specific concentration limit
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 GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 2</i>)	H225: Highly flammable liquid and vapour.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.