FSG Schäfer GmbH
Instandsetzungs-Materialien für Möbeloberflächen

FSG-Plastic Cleaner, Type HR 1

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

1.1. Product identifier

Trade name/designation:

FSG-Plastic Cleaner, Type HR 1

Article No.:
RE27000

UFI:
83SD-U2UE-D003-0601

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:

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

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 emergencydepartment., 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 *(Flam. Liq. 2)*	H225: Highly flammable liquid and vapour.	
Aspiration hazard *(Asp. Tox. 1)*	H304: May be fatal if swallowed and enters airways.	
Germ cell mutagenicity *(Muta. 1B)*	H340: May cause genetic defects.	
Carcinogenicity *(Carc. 1B)*	H350: May cause cancer.	

Hazard classes and hazard categories	Hazard statements	Classification procedure
STOT-repeated exposure *(STOT RE 1)*	H372: Causes damage to organs through prolonged or repeated exposure. (central nervous system)	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

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.

Hazard statements for health hazards	
H304	May be fatal if swallowed and enters airways.
H340	May cause genetic defects.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure. (central nervous system)

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

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.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
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.

Precautionary statements Disposal	
P501	Dispose of contents/container to Disposal methods.

Special rules for supplemental label elements for certain mixtures:
43,7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).
1,8 % 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 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**	25 – < 50 weight-%
EC No.: 927-241-2 **Index No.:** 649-330-00-2 **REACH No.:** 01-2119471843-32-0000	**Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics** Asp. Tox. 1 (H304), Carc. 1B (H350), Muta. 1B (H340), STOT RE 1 (H372) **Danger**	18 – ≤ 35 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**	12 – < 25 weight-%
CAS No.: 123-86-4 **EC No.:** 204-658-1 **Index No.:** 607-025-00-1 **REACH No.:** 01-2119485493-29-0007	**n-butyl acetate** Flam. Liq. 3 (H226), STOT SE 3 (H336) **Warning** EUH066	3 – ≤ 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	0 – < 1.35 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. 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. 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.

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Unsuitable extinguishing media:
Full water jet.

5.2. Special hazards arising from the substance or mixture
Highly flammable, Combustible

Hazardous combustion products:
In case of fire may be liberated: Carbon dioxide (CO2), Carbon monoxide Pyrolysis products, toxic, carbon black.
In case of fire: Gases/vapours, toxic.

5.3. Advice for firefighters
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. Keep locked up and out of reach of children.

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).
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Keep out of reach of children.

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

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/m³)

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Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
IE	n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	① 50 ppm (241 mg/m³) ② 150 ppm (723 mg/m³) ⑤ IOELV
IOELV (EU)	n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	① 50 ppm (241 mg/m³) ② 150 ppm (723 mg/m³)
IE	butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	① 200 ppm (600 mg/m³) ② 300 ppm (900 mg/m³) 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/m³) ② 300 ppm (900 mg/m³)
WEL (GB)	butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	① 200 ppm (600 mg/m³) ② 300 ppm (899 mg/m³)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
ethanol **CAS No.:** 64-17-5 **EC No.:** 200-578-6	950 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
ethanol **CAS No.:** 64-17-5 **EC No.:** 200-578-6	114 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
ethanol **CAS No.:** 64-17-5 **EC No.:** 200-578-6	1,900 mg/m³	① DNEL worker ② Acute - inhalation, local effects
ethanol **CAS No.:** 64-17-5 **EC No.:** 200-578-6	950 mg/m³	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, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics **EC No.:** 927-241-2	185 mg/m³	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

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Substance name	DNEL value	① DNEL type ② Exposure route
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
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics **EC No.:** 920-750-0	2,035 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics **EC No.:** 920-750-0	608 mg/m³	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
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	48 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	102.34 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	859.7 mg/m³	① DNEL Consumer ② Acute - inhalation, systemic effects
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	480 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	600 mg/m³	① DNEL worker ② Acute - inhalation, local effects
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	7 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	11 mg/kg bw/day	① DNEL worker ② Acute – dermal, systemic effects
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	600 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	106 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	1,161 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	412 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	31 mg/kg bw/day	① DNEL worker ② Long-term - oral, systemic effects

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
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	0.18 mg/L	① PNEC aquatic, freshwater
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	0.018 mg/L	① PNEC aquatic, marine water
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	35.6 mg/L	① PNEC sewage treatment plant
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	0.981 mg/L	① PNEC sediment, freshwater
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	0.0981 mg/L	① PNEC sediment, marine water
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	0.36 mg/L	① PNEC aquatic, intermittent release
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	0.0903 mg/L	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

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Substance name	PNEC Value	① PNEC type
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.
In full conatct: 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).
Check leak tightness/impermeability prior to use. 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

8.3. Additional information

For the end user

Wear standard work gloves.
After skin contact, wash the affected area with soap and water, then apply a moisturizing skin cream to the skin.
Avoid eye contact, use a soaked cloth to clean to avoid aerosol formation.
After eye contact, rinse your eyes with water; if eye irritation persists, consult an ophthalmologist.
Make sure there is sufficient fresh air during use.
After inhalation, possible headaches or ethanol hangover, drink plenty of water and provide enough fresh air.
If swallowed, contact a poison information center or doctor (emergency number) and show the safety data sheet and label.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: colourless
Odour: Alcohol

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 – 137 °C	
Decomposition temperature	*not determined*	
Flash point	10 °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

Highly flammable liquid and vapour. Do not spray on an open flame or other ignition source.

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.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics	**EC No.:** 927-241-2
LD_{50} oral: >15,000 mg/kg (Rat) MSDS Distributor	
LD_{50} dermal: >5,000 mg/kg (Rabbit) MSDS Distributor	
LC_{50} Acute inhalation toxicity (dust/mist): >6.1 mg/L 4 h (Rat) MSDS Distributor	
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	**EC No.:** 920-750-0
LD_{50} oral: >5,000 mg/kg (Rat) MSDS Distributor	
LD_{50} dermal: 2,800 – 3,100 mg/kg (Rat) ECHA	
LC_{50} Acute inhalation toxicity (vapour): 23.3 mg/L 4 h (Rat) ECHA	
n-butyl acetate **CAS No.:** 123-86-4	**EC No.:** 204-658-1
LD_{50} oral: 10,760 mg/kg (Ratte) OECD Prüfrichtlinie 423	
LD_{50} dermal: >14,112 mg/kg (Rabbit) OECD Prüfrichtlinie 402	
LC_{50} Acute inhalation toxicity (dust/mist): 23.4 mg/L 4 h (Rat) OECD Prüfrichtlinie 403	
butanone **CAS No.:** 78-93-3	**EC No.:** 201-159-0
LD_{50} oral: 2,740 mg/kg (Rat) Toxicology and Applied Pharmacology. Vol. 19, Pg. 699, 1971.	
LD_{50} 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.

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:
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:
May be fatal if swallowed and enters airways.

Additional information:
No data available

11.2. Information on other hazards

No data available

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SECTION 12: Ecological information

12.1. Toxicity

Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics **EC No.:** 927-241-2
LC_{50}: 10 – ≤100 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) MSDS Distributor
LC_{50}: 10 – ≤100 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) MSDS Distributor
LC_{50}: >100 mg/L (Algae/water plant) MSDS Distributor
LC_{50}: >1,000 mg/L (Mikroorganismen) MSDS Distributor
LC_{50}: >10 – <30 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC_{50}: >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EL 50 SDB BR
EC_{50}: >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
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
NOEC: 0.17 mg/L 21 d (crustaceans) ECHA
EC_{50}: 10 – 30 mg/L 3 d (Algae/water plant) ECHA
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1
LC_{50}: 18 mg/L 4 d (fish, Pimephales promelas) OECD Prüfrichtlinie 203
EC_{50}: 32 – 44 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: 246 – 647.7 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) Wachstumshemmung
NOEC: 105 – 196 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) Wachstumshemmung
NOEC: 23.2 mg/L 21 d (crustaceans)
IC_{50}: 356 mg/L 2 d (Tetrahymena)
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

Aquatic toxicity:
Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

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.
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics **EC No.:** 920-750-0
Biodegradation: Yes, rapidly
Remark: Inherently biodegradable. bioaccumulation possible.
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1
Biodegradation: Yes, rapidly
Remark: 83 % (aerob; Expositionsdauer: 28 d)(OECD Prüfrichtlinie 301D)
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0
Biodegradation: Yes, rapidly

12.3. Bioaccumulative potential

n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1
Log K_{OW}: 2.3

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

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Hydrocarbons, C9-C10, containing n-alkanes, isoalkanes, cyclics, with <2% aromatics **EC No.:** 927-241-2	
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.	
n-butyl acetate **CAS No.:** 123-86-4 **EC No.:** 204-658-1	
Results of PBT and vPvB assessment: —	
butanone **CAS No.:** 78-93-3 **EC No.:** 201-159-0	
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.*

Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable

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

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.. 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.

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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. (Ethanol and Gasoline, mixture)	FLAMMABLE LIQUID, N.O.S. (Ethanol and Gasoline, mixture)	FLAMMABLE LIQUID, N.O.S. (Ethanol and Gasoline, mixture)	FLAMMABLE LIQUID, N.O.S. (Ethanol and Gasoline, mixture)
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):** 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:

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

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Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:
Volatile organic compounds (VOC) content in percent by weight: 99.6 weight-%

15.1.2. National regulations

[GB] National regulations

Other regulations, restrictions and prohibition regulations
Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)
Regulation 850/2004/EC on persistent organic pollutants (POP)
Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

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

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids *(Flam. Liq. 2)*	H225: Highly flammable liquid and vapour.	
Aspiration hazard *(Asp. Tox. 1)*	H304: May be fatal if swallowed and enters airways.	
Germ cell mutagenicity *(Muta. 1B)*	H340: May cause genetic defects.	
Carcinogenicity *(Carc. 1B)*	H350: May cause cancer.	
STOT-repeated exposure *(STOT RE 1)*	H372: Causes damage to organs through prolonged or repeated exposure. (central nervous system)	
Hazardous to the aquatic environment *(Aquatic Chronic 3)*	H412: Harmful to aquatic life with long lasting effects.	

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

Hazard statements	
H225	Highly flammable liquid and vapour.
H226	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.
H372	Causes damage to organs through prolonged or repeated exposure.

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.