

**B-CLEAN**

Creation date 21st November 2024

Revision date Version 3.1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Substance / mixture B-CLEAN  
Number 1 35018 - 30L  
UFI 3X67-TWP1-N71M-E8WE

**1.2. Relevant identified uses of the substance or mixture and uses advised against Mixture's intended use**

Degreasing agent. For professional use only.

**Main intended use**

PC-CLN-2 All-purpose (or multi-purpose) non-abrasive cleaners including degreasing agents (unless otherwise specified in other subcategories of cleaning products)

**Mixture uses advised against**

The product should not be used in ways other than those referred in Section 1.

**1.3. Details of the supplier of the safety data sheet****Supplier**

Name or trade name RETECH, s.r.o.  
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00  
Czech Republic  
Identification number (CRN) 25018205  
VAT Reg No CZ25018205  
Phone +420327596428  
E-mail info@retech.cz  
Web address www.retech.com

**Competent person responsible for the safety data sheet**

Name RETECH, s.r.o.  
E-mail info@retech.cz

**1.4. Emergency telephone number**

European emergency number: 112

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Flam. Liq. 2, H225  
Asp. Tox. 1, H304  
Skin Irrit. 2, H315  
STOT SE 3, H336  
Aquatic Chronic 2, H411

**Most serious adverse physico-chemical effects**

Highly flammable liquid and vapour.

**Most serious adverse effects on human health and the environment**

May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

**2.2. Label elements****Hazard pictogram****Signal word**

Danger

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**Hazardous substances**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, &lt;5% n-hexane

Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane

**Hazard statements**

H225 Highly flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves.  
 P301+P310 IF SWALLOWED: Immediately call a doctor.  
 P331 Do NOT induce vomiting.  
 P391 Collect spillage.

**Supplemental information**

EUH208 Contains d-limonene. May produce an allergic reaction.  
 Density 0.718 g/cm<sup>3</sup> at 20 °C  
 VOC limit value cat. B (a) : 850 g/l  
 Max. VOC content in the product in its ready to use condition <850 g/l

**2.3. Other hazards**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

**SECTION 3: Composition/information on ingredients**
**3.2. Mixtures**
**Chemical characterization**

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 921-024-6 Registration number: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	≤48	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
EC: 931-254-9 Registration number: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane	13.95-16.28	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43	ethanol	1-<5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 50 %	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-037-00-0 CAS: 110-54-3 EC: 203-777-6	n-hexane	<2.4	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2 (**), H361f STOT RE 2 (**), H373 Aquatic Chronic 2, H411 Specific concentration limit: STOT RE 2, H373: C ≥ 5 %	2
Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 Registration number: 01-2119457290-43	butanone	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 10 % STOT SE 3, H336: C > 20 %	2
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7	isopropanol	<1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Specific concentration limit: Eye Irrit. 2, H319: C ≥ 10 % STOT SE 3, H336: C > 20 %	
Index: 601-096-00-2 CAS: 5989-27-5 EC: 227-813-5	d-limonene	<1	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	1

### Notes

\*\* another exposure route cannot be ruled out

\*\* reproductive toxicity: supplementary letters specify whether fetal harm (d) or fertility harm (f) may occur

1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

2 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. Ensure calm environment for body and mind. Protect the person against growing cold. Remove all ignition sources; provide sufficient ventilation. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

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**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. Take care of your own safety, do not let the affected person walk! Beware of the contaminated clothes. Protect the person against growing cold. If required, provide artificial respiration. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

**If on skin**

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 15 minutes. In the event of issues, find medical help.

**If swallowed**

DO NOT INDUCE VOMITING! If the affected person vomits, make sure to prevent inhalation of the vomit (as there is a danger of lung damage after inhalation of these liquids in the airways also in infinitesimal amount). Provide medical treatment considering the frequent need of further observation for at least 24 hours. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

**4.2. Most important symptoms and effects, both acute and delayed****If inhaled**

May cause drowsiness or dizziness. There may be shortness of breath. Cough, headache. Nausea.

**If on skin**

Causes skin irritation. May cause an allergic skin reaction.

**If in eyes**

Not expected.

**If swallowed**

May be fatal if swallowed and enters airways.

**4.3. Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, sand, powder. Foam. Water mist.

**Unsuitable extinguishing media**

Water - full jet. Vapours mixed up with air can be explosive.

**5.2. Special hazards arising from the substance or mixture**

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage. Vapours mixed up with air can be explosive. Vapors from gases are heavier than air. Vapour may travel considerable distance to source of ignition and flash back. In a fire or if heated, a pressure increase will occur and the container may burst.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing. Use non-sparking tools. Move containers from fire area if safe to do. Evacuate area. Keep unprotected persons away. Fight fire with normal precautions from a reasonable distance. Closed containers with the product near the fire should be cooled with water. Dispose of contaminated extinguishing water and remains after the fire in accordance with the official regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Provide sufficient ventilation. Highly flammable liquid and vapour. Remove all ignition sources. No smoking. Keep away from hot surfaces and open flames. Use non-sparking tools. Use explosion-proof electrical/ventilating/lighting equipment. Prevent other leakage. Evacuate area. Keep unprotected persons away. Prevent contact with skin and eyes. Use personal protective equipment for work. Do not inhale mist/vapours/spray. Follow the instructions in the Sections 7 and 8.

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**6.2. Environmental precautions**

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains. Prevent other leakage. In the event of leakage into water, prevent other spread of the product via oil boom. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies.

**6.3. Methods and material for containment and cleaning up**

Large spills may be taken up with pump. Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**SECTION 7: Handling and storage**
**7.1. Precautions for safe handling**

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Do not eat, drink or smoke when using this product. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Do not use compressed air for filling, emptying or another handling. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges. Avoid release to the environment.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not store together with oxidising agent. Do not store together with food, drink and animal feed.

Content	Packaging type	Material of package
30 l	jerry can	

**The specific requirements or rules relating to the substance/mixture**

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

**7.3. Specific end use(s)**

not available

**SECTION 8: Exposure controls/personal protection**
**8.1. Control parameters**

The mixture contains substances for which occupational exposure limits are set.

**European Union**
**Commission Directive 2000/39/EC**

Substance name (component)	Type	Value
butanone (CAS: 78-93-3)	OEL 8 hours	600 mg/m <sup>3</sup>
	OEL 8 hours	200 ppm
	OEL 15 minutes	900 mg/m <sup>3</sup>
	OEL 15 minutes	300 ppm

**European Union**
**Commission Directive 2006/15/EC**

Substance name (component)	Type	Value
n-hexane (CAS: 110-54-3)	OEL 8 hours	72 mg/m <sup>3</sup>
	OEL 8 hours	20 ppm

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### DNEL

butanone			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	600 mg/m <sup>3</sup>	Chronic effects systemic
Workers	Inhalation	900 mg/m <sup>3</sup>	Acute effects systemic
Workers	Dermal	1161 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	106 mg/m <sup>3</sup>	Chronic effects systemic
Consumers	Inhalation	450 mg/m <sup>3</sup>	Acute effects systemic
Consumers	Dermal	412 mg/kg bw/day	Chronic effects systemic
Consumers	Oral	31 mg/kg bw/day	Chronic effects systemic

ethanol			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	380 mg/m <sup>3</sup>	Chronic effects systemic
Workers	Dermal	8238 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	114 mg/m <sup>3</sup>	Chronic effects systemic

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane			
Workers / consumers	Route of exposure	Value	Effect
Consumers	Oral	699 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	699 mg/kg bw/day	Chronic effects systemic
Workers	Dermal	773 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	608 mg/m <sup>3</sup>	Chronic effects systemic
Workers	Inhalation	2035 mg/m <sup>3</sup>	Chronic effects systemic

Hydrocarbons, C6, isoalkanes, <5% n-hexane			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	13964 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	5306 mg/m <sup>3</sup> /8h	Chronic effects systemic
Consumers	Dermal	1377 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	1131 mg/m <sup>3</sup> /24h	Chronic effects systemic
Consumers	Oral	1301 mg/kg bw/day	Chronic effects systemic

### PNEC

ethanol	
Route of exposure	Value
Freshwater environment	0.96 mg/l
Marine water	0.79 mg/l
Microorganisms in sewage treatment	580 mg/l
Freshwater sediment	3.6 mg/kg of dry substance of sediment
Sea sediments	2.9 mg/kg of dry substance of sediment
Soil (agricultural)	0.63 mg/kg of dry substance of soil
Food chain	380 mg/kg of food

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**8.2. Exposure controls**

Use personal protective equipment that is clean and has been properly maintained. Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Ensure workplace is equipped with a safety shower and eye wash station.

**Eye/face protection**

Protective goggles.

**Skin protection**

Hand protection: Protective gloves resistant to the product. EN ISO 374-1. Use barrier creams for skin protection. Not suitable are gloves made of the following materials: Rubber (natural). Nitrile rubber. Butyl rubber. Material of gloves: PVC. Neoprene. Penetration time of glove material:  $\geq 480$  min. Recommended thickness of the material:  $\geq 0.35$  mm. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Wash contaminated reusable gloves with water before removing and store in a well-ventilated place. Other protection: protective workwear and footwear. Wear anti-static protective clothing if there is a risk of ignition from static electricity.

**Respiratory protection**

Mask with a filter against organic vapours in a poorly ventilated environment. Filter A. Use insulating breathing apparatus in case of an accident, fire or high concentration.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	>35 °C
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	60-99 °C
Flammability	flammable
Lower and upper explosion limit	
bottom	0.8 %
upper	8 %
Flash point	<23 °C
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	35 °C
Auto-ignition temperature	>230 °C
Decomposition temperature	data not available
pH	non-polar/aprotic
Kinematic viscosity	data not available
Solubility in water	insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	113 hPa at 20 °C
Density and/or relative density	
Density	0.718 g/cm <sup>3</sup> at 20 °C

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Relative vapour density data not available

Particle characteristics data not available

Form liquid

data not available

**9.2. Other information**

Explosive properties

The product does not have explosive properties but can be explosive when blended with air.

VOC limit value

cat. B (a) : 850 g/l

Max. VOC content in the product in its ready to use condition

&lt;850 g/l

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

The mixture is highly flammable.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Vapours mixed up with air can be explosive. Strong oxidizing agents. Fire hazard.

**10.4. Conditions to avoid**

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating.

**10.5. Incompatible materials**

Protect against strong oxidizing agents. Rubber (natural, latex). Butyl rubber. Nitrile rubber.

**10.6. Hazardous decomposition products**

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

**SECTION 11: Toxicological information**
**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

**Acute toxicity**

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

butanone						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	3300 mg/kg		Rat		
Dermal	LD <sub>50</sub>	6400-8000 mg/kg		Rabbit		

ethanol						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	6200 mg/kg		Rat		
Dermal	LD <sub>50</sub>	20000 mg/kg		Rabbit		
Inhalation	LC <sub>50</sub>	5.9 mg/l	6 hours	Rat		

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Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	>5840 mg/kg		Rat (Rattus norvegicus)	F/M	Read-across
Oral	LD <sub>50</sub>	>2800-3100 mg/kg		Rat (Rattus norvegicus)	F/M	Read-across
Inhalation (vapor)	LC <sub>50</sub>	>25.2 mg/l	4 hours	Rat (Rattus norvegicus)		

### isopropanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD <sub>50</sub>	5480 mg/kg		Rat		
Dermal	LD <sub>50</sub>	12800 mg/kg		Rabbit		
Inhalation	LD <sub>50</sub>	72.6 mg/l	4 hours	Rat		

### Skin corrosion/irritation

Causes skin irritation. Data for the components of the mixture are not available.

### Serious eye damage/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Respiratory or skin sensitisation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness. Data for the components of the mixture are not available.

### Toxicity for specific target organ - repeated exposure

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

### Aspiration hazard

May be fatal if swallowed and enters airways. Data for the components of the mixture are not available.

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**11.2. Information on other hazards**
**Endocrine disrupting properties**

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

**Other information**

not available

**SECTION 12: Ecological information**
**12.1. Toxicity**

Toxic to aquatic life with long lasting effects.

**Acute toxicity**

butanone							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC <sub>50</sub>		2993 mg/l	96 hours	Fish (Pimephales promelas)			
EC <sub>50</sub>		308 mg/l	48 hours	Daphnia (Daphnia magna)			
EC <sub>50</sub>		4300 mg/l	7 days	Algae (Scenedesmus quadricauda)			

ethanol							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC <sub>50</sub>		11200 mg/l	24 hours	Fish (Oncorhynchus mykiss)			
LC <sub>50</sub>		8140 mg/l	48 hours	Fish (Leuciscus idus)			
LC <sub>50</sub>		15.3 g/l	96 hours	Fish (Pimephales promelas)			
EC <sub>50</sub>		10800 mg/l	24 hours	Daphnia (Daphnia magna)			

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC <sub>50</sub>	OECD 203	11.4 mg/l	96 hours	Fish (Oncorhynchus mykiss)		Experimentally	
EC <sub>50</sub>	OECD 202	3 mg/l	48 hours	Daphnia (Daphnia magna)		Experimentally	
EC <sub>50</sub>	OECD 201	10 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		Biomass, Experimentally	

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Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
EC <sub>50</sub>	OECD 201	30 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		Experimentally, Indicator of growth	
EC <sub>50</sub>	OECD 201	35.57 mg/l	48 hours	Microorganisms (Tetrahymena pyriformis)		QSAR	

### isopropanol

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC <sub>50</sub>		8970-9280 mg/l	48 hours	Fish (Leuciscus idus)			
LC <sub>50</sub>		9640 mg/l	96 hours	Fish (Pimephales promelas)			
EC <sub>50</sub>		>10000 mg/l	24 hours	Invertebrates (Artemia salina)			
EC <sub>50</sub>		>1000 mg/l	24 hours	Invertebrates (Daphnia magna)			

### n-hexane

Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC <sub>50</sub>		2.5 mg/l	96 hours	Fish (Pimephales promelas)			Geiger et al. 1990

### Chronic toxicity

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Parameter	Method	Value	Exposure time	Species	Environment	Value determination
NOEC		2045 mg/l	28 days	Fish (Oncorhynchus mykiss)		QSAR, Indicator of growth
NOEC	OECD 201	1 mg/l	21 days	Daphnia (Daphnia magna)		Read-across

### 12.2. Persistence and degradability

Data for the mixture are not available. Surfactants are biodegradable according to the European Parliament and Council Regulation (EC) No. 648/2004 on detergents, as amended.

#### Biodegradability

#### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	98 %	28 days		

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**12.3. Bioaccumulative potential**

Data for the mixture are not available.

ethanol					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	0.66				

**12.4. Mobility in soil**

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Floats on water. Adsorption to the solid soil phase is expected.

**12.5. Results of PBT and vPvB assessment**

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

**12.6. Endocrine disrupting properties**

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

**12.7. Other adverse effects**

Not available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

**Waste management legislation**

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

16 03 05\* organic wastes containing hazardous substances

**Packaging waste type code**

15 01 10\* packaging containing residues of or contaminated by hazardous substances

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

**SECTION 14: Transport information****14.1. UN number or ID number**

UN 3295

**14.2. UN proper shipping name**

HYDROCARBONS, LIQUID, N.O.S. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; hydrocarbons, C6, isoalkanes, <5% n-hexane)

**14.3. Transport hazard class(es)**

3 Flammable liquids

**14.4. Packing group**

II

**14.5. Environmental hazards**

Yes

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

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**Additional information**

Hazard identification No.

**33**

UN number

**3295**

Classification code

F1

Safety signs

3+ hazardous for the environment


**Road transport - ADR**

Special provisions 640D

Limited quantities 5 L

Excepted quantities E2

Transport category 2

Tunnel restriction code (D/E)

**Railway transport - RID**

Excepted quantities E2

Transport category 2

**Air transport - ICAO/IATA**

Packaging instructions for limited amount Y341

Packaging instructions passenger 353

Cargo packaging instructions 364

**Marine transport - IMDG**

EmS (emergency plan) F-E, S-D

MFAG 310

**SECTION 15: Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**Additional information in accordance with Regulation (EC) no. 648/2004 on detergents, as amended**

&gt;=30 % aliphatic hydrocarbons, perfumes, Limonene

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16: Other information**
**A list of standard risk phrases used in the safety data sheet**

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains d-limonene. May produce an allergic reaction.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Guidelines for safe handling used in the safety data sheet

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273	Avoid release to the environment.
P280	Wear protective gloves.
P301+P310	IF SWALLOWED: Immediately call a doctor.
P331	Do NOT induce vomiting.
P391	Collect spillage.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log K <sub>ow</sub>	Octanol-water partition coefficient
NOEC	No observed effect concentration

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OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.	Reproductive toxicity
RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**The changes (which information has been added, deleted or modified)**

The version 3.1 replaces the SDS version from Monday, 18 December 2023. Changes were made in sections 2, 11, 12 and 16.

**Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.