SAFETY DATA SHEET

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

MULTI CLEANER STRONG

Creation date	09th June 2023
Revision date	Version 4.0

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

1.1. Product identifier — MULTI CLEANER STRONG

Substance / mixture	mixture
Number	R 34228 - 1L, R 34231 - 5L, R 34229 - 20L
UFI	PUES-4U80-G904-6Q8C

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

Mixture's intended use

Cleaning agent.

Mixture uses advised against

For professional use only.

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.

Skin Corr. 1B, H314
Eye Dam. 1, H318

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

Most serious adverse effects on human health and the environment

Causes severe skin burns and eye damage. Causes serious eye damage.

2.2. Label elements

Hazard pictogram

Signal word

Danger

Hazardous substances

sodium hydroxide

Hazard statements

H314	Causes severe skin burns and eye damage.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.

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.

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
Index: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5	sodium hydroxide	1-<10	Met. Corr. 1, H290 Skin Corr. 1A, H314 Specific concentration limit: Skin Corr. 1B, H314: 2 % ≤ C < 5 % Skin Corr. 1A, H314: C ≥ 5 % Eye Irrit. 2, H319: 0.5 % ≤ C < 2 % Skin Irrit. 2, H315: 0.5 % ≤ C < 2 %	
CAS: 107-98-2 EC: 203-539-1 Registration number: 01-2119457435-35-0000	1-methoxy-2-propanol	1-<5	Flam. Liq. 3, H226 STOT SE 3, H336	1
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 %	
CAS: 15763-76-5 EC: 239-854-6 Registration number: 01-2119489411-37-0000	Sodium p-cumenesulphonate	<2	Eye Irrit. 2, H319	
CAS: 85536-14-7 EC: 287-494-3	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	<2	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	
Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0	butanone	<0,2	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 %	1

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7	isopropanol	<0,2	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 %	

Notes

1 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

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. 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.

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. 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. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse cautiously with water for several minutes. Rinse skin with water or shower.

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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system.

If on skin

Causes severe skin burns.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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

The mixture is non-flammable. Accommodate extinguishing components to the location of fire.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

React exothermically on contact with water. Hydrogen gas may be formed in case of contact with metals (aluminium, zinc etc.). Explosion risk.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

6.3. Methods and material for containment and cleaning up

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. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

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 concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ensure workplace is equipped with a safety shower and eye wash station.

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. Keep only in original packaging. Do not store together with food, drink and animal feed. Incompatible materials: strong acids, metals (aluminium, zinc, tin). Organic peroxides. Hydrogen gas may be formed in case of contact with metals (aluminium, zinc etc.). Explosion risk.

The specific requirements or rules relating to the substance/mixture

Provide alkali-resistant floor.

7.3. Specific end use(s)

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

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	Note
1-methoxy-2-propanol (CAS: 107-98-2)	OEL 8 hours	375 mg/m³	Skin
	OEL 8 hours	100 ppm	
	OEL 15 minutes	568 mg/m³	

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

Substance name (component)	Type	Value	Note
1-methoxy-2-propanol (CAS: 107-98-2)	OEL 15 minutes	150 ppm	Skin
butanone (CAS: 78-93-3)	OEL 8 hours	600 mg/m³	
	OEL 8 hours	200 ppm	
	OEL 15 minutes	900 mg/m³	
	OEL 15 minutes	300 ppm	

DNEL

1-methoxy-2-propanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	369 mg/m³	Chronic effects systemic		
Workers	Inhalation	553.5 mg/m³	Acute effects systemic		
Workers	Inhalation	553.5 mg/m³	Acute effects local		
Workers	Dermal	183 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	43.9 mg/m³	Chronic effects systemic		
Consumers	Dermal	78 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	33 mg/kg bw/day	Chronic effects systemic		

ethanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	380 mg/m³	Chronic effects systemic		
Workers	Dermal	8238 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	114 mg/m³	Chronic effects systemic		

sodium hydroxide					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	1 mg/m³	Chronic effects local		
Consumers	Inhalation	1 mg/m³	Chronic effects local		

Sodium p-cumenesulphonate					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	26.9 mg/m³	Chronic effects systemic		
Workers	Dermal	136.25 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	0.096 mg/cm²	Chronic effects local		
Consumers	Inhalation	6.6 mg/m³	Chronic effects systemic		
Consumers	Dermal	68.1 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	0.048 mg/cm²	Chronic effects local		
Consumers	Oral	3.8 mg/kg bw/day	Chronic effects systemic		

PNEC

1-methoxy-2-propanol			
Route of exposure	Value	Value determination	Source
Freshwater environment	10 mg/l		
Marine water	1 mg/l		
Microorganisms in sewage treatment	100 mg/l		
Freshwater sediment	52.3 mg/kg of dry substance of sediment		
Sea sediments	5.2 mg/kg of dry substance of sediment		
Soil (agricultural)	4.59 mg/kg of dry substance of soil		

ethanol			
Route of exposure	Value	Value determination	Source
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		

Sodium p-cumenesulphonate			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.23 mg/l		

Sodium p-cumenesulphonate			
Route of exposure	Value	Value determination	Source
Marine water	0.023 mg/l		
Water (intermittent release)	2.3 mg/l		
Microorganisms in sewage treatment	100 mg/l		
Freshwater sediment	0.862 mg/kg bw/day		
Sea sediments	0.0862 mg/kg bw/day		
Soil (agricultural)	0.037 mg/kg bw/day		

8.2. Exposure controls

Prevent contact with skin and eyes. 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 or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. Material of gloves (NaOH): Natural rubber (0.5 mm), nitrile rubber (0.35 mm), PVC (0,5 mm), neoprene (0.5 mm), butyl rubber (0.5 mm), fluororubber (0.5 mm). Penetration time of glove material: ≥480 min. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Protective gloves shall be replaced immediately when damaged. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter A-P2/P3.

Thermal hazard

Not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	mild
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	100 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>100 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	13-14 (undiluted at 20 °C)
Kinematic viscosity	data not available
Solubility in water	miscible
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1.04-1.06 g/cm³ at 20 °C

Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

9.2. Other information

not available

SECTION 10: Stability and reactivity

10.1. Reactivity

See the Section 10.3.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Exothermic reactions may occur in contact with acids. Hydrogen gas may be formed in case of contact with metals (aluminium, zinc etc.). Explosion risk.

10.4. Conditions to avoid

Do not mix with any other chemicals.

10.5. Incompatible materials

Strong acids, light metals, aluminium, zinc. Organic peroxides.

10.6. Hazardous decomposition products

Hydrogen gas may be formed in case of contact with metals (aluminium, zinc etc.). Explosion risk.

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.

1-methoxy-2-propanol							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}	OECD 401	3739 mg/kg		Rat	M	
Dermal	LD_{50}	OECD 402	>2000 mg/kg		Rabbit	F/M	
Inhalation (vapor)	LC_{50}	OECD 403	30.02 mg/l	4 hours	Rat		
Oral	LD_{50}	OECD 401	4277 mg/kg		Rat	F	

butanone							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}		3300 mg/kg		Rat		
Dermal	LD_{50}		6400-8000 mg/kg		Rabbit		

ethanol							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}		6200 mg/kg		Rat		
Dermal	LD_{50}		20000 mg/kg		Rabbit		
Inhalation	LC_{50}		5.9 mg/l	6 hours	Rat		

isopropanol							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Oral	LD_{50}		5480 mg/kg		Rat		
Dermal	LD_{50}		12800 mg/kg		Rabbit		
Inhalation	LD_{50}		72.6 mg/l	4 hours	Rat		

Sodium p-cumenesulphonate							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex	Value determination
Dermal	LD_{50}		>2000 mg/kg		Rabbit		Literary studies, Observation method
Inhalation	LC_{50}		>5 mg/l	232 minutes	Rat		Observation method
Oral	LD_{50}	OECD 401	>5000 mg/kg		Rat		Observation method

Skin corrosion/irritation

Causes severe skin burns and eye damage.

1-methoxy-2-propanol					
Route of exposure	Result	Method	Exposure time	Species	Value determination
Skin	Not irritating				

sodium hydroxide					
Route of exposure	Result	Method	Exposure time	Species	Value determination
Skin	Corrosive			Rabbit	

Sodium p-cumenesulphonate					
Route of exposure	Result	Method	Exposure time	Species	Value determination
Dermal	Slightly irritating	OECD 404		Rabbit	Literary studies, Observation method

Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

1-methoxy-2-propanol					
Route of exposure	Result	Method	Exposure time	Species	Value determination
Eye	Slightly irritating				

sodium hydroxide					
Route of exposure	Result	Method	Exposure time	Species	Value determination
Eye	Corrosive	OECD 405		Rabbit	

Sodium p-cumenesulphonate					
Route of exposure	Result	Method	Exposure time	Species	Value determination
Eye	Moderate irritant	OECD 405		Rabbit	Literary studies, Observation method

Respiratory or skin sensitisation

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

1-methoxy-2-propanol							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
Skin	Not sensitizing			Guinea-pig			

sodium hydroxide							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
	Not sensitizing			Human			

Sodium p-cumenesulphonate							
Route of exposure	Result	Method	Exposure time	Species	Sex	Value determination	Source
	Not sensitizing	OECD 406		Guinea-pig		Literary studies, Observation method	Buehlerova zkouška

Germ cell mutagenicity

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

1-methoxy-2-propanol						
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination
Negative	in vitro					Literary studies

sodium hydroxide						
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination
No effect						

Sodium p-cumenesulphonate						
Result	Method	Exposure time	Specific target organ	Species	Sex	Value determination
No effect						Literary studies, Observation method

Carcinogenicity

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

1-methoxy-2-propanol								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Value determination
					Not carcinogenic			

Sodium p-cumenesulphonate								
Route of exposure	Parameter	Method	Value	Exposure time	Result	Species	Sex	Value determination
Dermal		OECD 453		2 years (5 days/week)	No carcinogenic effect	Rat		Literary studies, Observation method

Reproductive toxicity

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

1-methoxy-2-propanol									
Effect	Parameter	Method	Value	Specific target organ	Result	Species	Sex	Value determination	Source
				Fetus	Fetotoxicity, Maternal toxicity				

sodium hydroxide									
Effect	Parameter	Method	Value	Specific target organ	Result	Species	Sex	Value determination	Source
					No effect				

Sodium p-cumenesulphonate									
Effect	Parameter	Method	Value	Specific target organ	Result	Species	Sex	Value determination	Source
Effects on fertility	NOAEL	OECD 421	300 mg/kg bw/day	In general		Rat		Literary studies, Observation metho	
Effects on fertility	NOAEL	OECD 421	1000 mg/kg bw/day	In general		Rat		Literary studies, Observation metho	F1
Developmental toxicity	NOAEL		936 mg/kg bw/day	In general	Maternal toxicity	Rat		Literary studies, Observation metho	
Developmental toxicity	NOAEL		936 mg/kg bw/day	In general	Teratogenicity	Rat		Literary studies, Observation metho	

Toxicity for specific target organ - single exposure

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

sodium hydroxide					
Route of exposure	Parameter	Value	Result	Species	Sex
			No effect		

Toxicity for specific target organ - repeated exposure

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

1-methoxy-2-propanol									
Route of exposure	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex	Value determination
Inhalation					Nervous system	Drowsiness, Dizziness			
					Liver		Mammals		
					Kidney	Positive, Tumor formation	Rat	M	
					Nervous system	Drowsiness			

sodium hydroxide									
Route of exposure	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex	Value determination
						No effect			

Sodium p-cumenesulphonate									
Route of exposure	Parameter	Method	Value	Exposure time	Specific target organ	Result	Species	Sex	Value determination
Oral	NOAEL		763 mg/kg		Heart		Rat		Literary studies, Observation method
Skin	NOAEL	OECD 453	60 mg/kg	2 years	Skin	Local effects	Rat		Literary studies, Observation method

Aspiration hazard

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.

11.2. Information on 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.

SECTION 12: Ecological information

12.1. Toxicity

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

Acute toxicity

1-methoxy-2-propanol							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}		6812 mg/l	96 hours	Fish (Leuciscus idus)		Static system	DIN 38412

1-methoxy-2-propanol							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}	OECD 203	≥1000 mg/l	96 hours	Fish (Oncorhynchus mykiss)		Semi static system	
LC_{50}	OECD 203	20800 mg/l	96 hours	Fish (Pimephales promelas)		Static system	
LC_{50}	OECD 202	21100-25900 mg/l	48 hours	Daphnia (Daphnia magna)		Static system	

butanone							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}		2993 mg/l	96 hours	Fish (Pimephales promelas)			
EC_{50}		308 mg/l	48 hours	Daphnia (Daphnia magna)			
EC_{50}		4300 mg/l	7 days	Algae (Scenedesmus quadricauda)			

ethanol							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}		11200 mg/l	24 hours	Fish (Oncorhynchus mykiss)			
LC_{50}		8140 mg/l	48 hours	Fish (Leuciscus idus)			
LC_{50}		15.3 g/l	96 hours	Fish (Pimephales promelas)			
EC_{50}		10800 mg/l	24 hours	Daphnia (Daphnia magna)			

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

sodium hydroxide							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}		145 mg/l	24 hours	Fish (Poecilia reticulata)			
EC_{50}		76 mg/l	24 hours	Daphnia (Daphnia magna)			
EC_{50}		22 mg/l	15 minutes	Bacteria (Photobacterium phosphoreum)			

Sodium p-cumenesulphonate							
Parameter	Method	Value	Exposure time	Species	Environment	Value determination	Source
LC_{50}		>100 mg/l	96 hours	Fish (Oncorhynchus mykiss)		Observation method, Static system	
EC_{50}		>100 mg/l	48 hours	Daphnia (Daphnia magna)		Observation method, Static system	
EC_{50}		>100 mg/l	96 hours	Algae and other aquatic plants (Pseudokirchneriella subcapitata)		Observation method, Static system	
EC_{10}	OECD 209	>1000 mg/l	3 hours	Bacteria	Activated sludge	Observation method	

Chronic toxicity

1-methoxy-2-propanol						
Parameter	Method	Value	Exposure time	Species	Environment	Value determination
ErC_{50}	OECD 201	>1000 mg/l	7 days	Algae (Pseudokirchneriella subcapitata)		Static system, Indicator of growth

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

1-methoxy-2-propanol						
Parameter	Method	Value	Exposure time	Environment	Value determination	Result
	OECD 301E	96 %	28 days			Easily biodegradable

Sodium p-cumenesulphonate						
Parameter	Method	Value	Exposure time	Environment	Value determination	Result
	OECD 301B	>60 %	28 days		Literary studies, Observation method	Easily biodegradable

12.3. Bioaccumulative potential

Data for the mixture are not available.

1-methoxy-2-propanol					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	<2				
Log Pow	0.37				

12.4. Mobility in soil

Data for the mixture are not available.

1-methoxy-2-propanol					
Parameter	Value	Environment	Temperature	Value determination	Result
Log Koc	0.2-1			Estimated value	

sodium hydroxide					
Parameter	Value	Environment	Temperature	Value determination	Result
					High

Sodium p-cumenesulphonate					
Parameter	Value	Environment	Temperature	Value determination	Result
					Easily biodegradable

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

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.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. 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. Perfectly cleaned containers can be submitted for recycling.

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

20 01 29 detergents 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 3266

14.2. UN proper shipping name

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (containing sodium hydroxide)

14.3. Transport hazard class(es)

8 Corrosive substances

14.4. Packing group

II - substances presenting medium danger

14.5. Environmental hazards

not relevant

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

Additional information

Hazard identification No.	**80**
UN number	**3266**
Classification code	C5
Safety signs	8

Air transport - ICAO/IATA

Packaging instructions passenger	851
Cargo packaging instructions	855

Marine transport - IMDG

EmS (emergency plan)	F-A, S-B

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

<5 % anionic surfactants, <5 % amphoteric surfactants, <5 % non-ionic surfactants

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.

H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Guidelines for safe handling used in the safety data sheet

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.

A list of additional standard phrases used in the safety data sheet

EUH066	Repeated exposure may cause skin dryness or cracking.

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
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_{10}	Concentration of a substance when it is affected 10% of the population
EC_{50}	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
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_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
NOAEL	No observed adverse effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
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

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
STOT SE	Specific target organ toxicity - single exposure

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 4.0 replaces the SDS version from 15 September 2022. Changes were made in sections 1, 2, 3, 8, 9, 11, 12, 13, 15 and 16.

More information

Classification procedure - calculation method.

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.