SAFETY DATA SHEET

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

POWER CLEANER

Creation date	21st May 2024
Revision date	Version 4.1

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

1.1. Product identifier — POWER CLEANER

Substance / mixture	mixture
Number	R 50202
UFI	KUAU-CEPJ-U108-GVUX

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

Mixture's intended use

Cleaning agent. For professional use only.

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.

Aerosol 1, H229, H222
Asp. Tox. 1, H304
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H335, H336
STOT RE 2, H373
Aquatic Chronic 3, H412

Most serious adverse physico-chemical effects

Extremely flammable aerosol. Pressurised container: May burst if heated.

Most serious adverse effects on human health and the environment

May cause damage to organs through prolonged or repeated exposure. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram

Signal word

Danger

Hazardous substances

reaction mass of ethylbenzene and xylene
butanone
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics
propan-2-ol

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful 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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403	Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C.

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
EC: 905-588-0 Registration number: 01-2119488216-32/-6136-34	reaction mass of ethylbenzene and xylene	25-<50	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373	
Index: 606-002-00-3 CAS: 78-93-3 EC: 201-159-0 Registration number: 01-2119457290-43	butanone	10-<25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 68920-06-9 EC: 920-750-0 Registration number: 01-2119473851-33	hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics	10-<25	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066	
CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	10-<25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	10-<25	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	butane (containing < 0,1 % butadiene (203-450-8))	1-<2,5	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	
CAS: 111-76-2 EC: 203-905-0 Registration number: 01-2119475108-36	2-butoxyethanol	1-<2,5	Acute Tox. 4, H302+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Specific concentration limit: ATE Oral = 1200 mg/kg bw	1
CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27	isobutane (containing < 0,1 % butadiene (203-450-8))	0,1-<1	Flam. Gas 1A, H220 Press. Gas (compressed gas), H280	

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

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

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Provide medical treatment.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

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 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

DO NOT INDUCE VOMITING! Provide medical treatment.

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

If inhaled

May cause respiratory irritation. May cause drowsiness or dizziness.

If on skin

Causes skin irritation.

If in eyes

Causes serious eye irritation.

If swallowed

not available

4.3. Indication of any immediate medical attention and special treatment needed
not available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media
Water - full jet.

5.2. Special hazards arising from the substance or mixture
not available

5.3. Advice for firefighters
Use a self-contained breathing apparatus and full-body protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work. Keep unprotected persons away.

6.2. Environmental precautions
Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up
Provide sufficient ventilation. Do not flush with water or aqueous cleansing agents. Dispose of the collected material according to the instructions in 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
Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Do not spray on an open flame or other ignition source. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. No smoking. Take precautionary measures against static discharge. Pressurised container: May burst if heated. Keep away from sources of heating, ignition and direct sunlight. Do not pierce or burn, even after use.

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. Protect from sunlight. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C.

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	Note
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	
2-butoxyethanol (CAS: 111-76-2)	OEL 8 hours	98 mg/m³	Skin
	OEL 8 hours	20 ppm	

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

Substance name (component)	Type	Value	Note
2-butoxyethanol (CAS: 111-76-2)	OEL 15 minutes	246 mg/m³	Skin
	OEL 15 minutes	50 ppm	

DNEL

2-butoxyethanol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	98 mg/m³	Chronic effects systemic		
Workers	Inhalation	1091 mg/m³	Acute effects systemic		
Consumers	Inhalation	59 mg/m³	Chronic effects systemic		
Consumers	Inhalation	426 mg/m³	Acute effects systemic		
Consumers	Inhalation	147 mg/m³	Acute effects local		
Consumers	Oral	6.3 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	26.7 mg/kg bw/day	Acute effects systemic		
Workers	Dermal	10.3 mg/kg bw/day	Chronic effects systemic		

butanone					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	600 mg/m³	Chronic effects systemic		
Workers	Dermal	1161 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	106 mg/m³	Chronic effects systemic		
Consumers	Dermal	412 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	31 mg/kg bw/day	Chronic effects systemic		

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2035 mg/m³	Chronic effects systemic		
Workers	Dermal	773 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	608 mg/m³	Chronic effects systemic		
Consumers	Dermal	699 mg/kg bw/day	Chronic effects systemic		
Consumers	Oral	699 mg/kg bw/day	Chronic effects systemic		

propan-2-ol					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	26 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	319 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	888 mg/kg bw/day	Chronic effects systemic		
Consumers	Inhalation	89 mg/m³	Chronic effects systemic		
Workers	Inhalation	500 mg/m³	Chronic effects systemic		

reaction mass of ethylbenzene and xylene					
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Consumers	Oral	1.6 mg/kg bw/day	Chronic effects systemic		
Consumers	Dermal	108 mg/kg bw/day	Chronic effects systemic		
Workers	Dermal	180 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	289 mg/m³	Acute effects local		
Consumers	Inhalation	14.8 mg/m³	Chronic effects systemic		
Workers	Inhalation	77 mg/m³	Chronic effects systemic		
Workers	Inhalation	289 mg/m³	Acute effects systemic		
Consumers	Inhalation	174 mg/m³	Acute effects systemic		
Workers	Inhalation	221 mg/m³	Chronic effects local		
Consumers	Inhalation	174 mg/m³	Chronic effects local		

PNEC

2-butoxyethanol			
Route of exposure	Value	Value determination	Source
Freshwater environment	8.8 mg/l		
Marine water	0.88 mg/l		
Microorganisms in sewage treatment	463 mg/l		
Sea sediments	3.46 mg/kg of dry substance of sediment		
Freshwater sediment	8.14 mg/kg of dry substance of sediment		
Soil (agricultural)	2.8 mg/kg of dry substance of soil		

reaction mass of ethylbenzene and xylene			
Route of exposure	Value	Value determination	Source
Freshwater environment	0.327 mg/l		
Marine water	0.327 mg/l		
Freshwater sediment	12.46 mg/kg of dry substance of sediment		

reaction mass of ethylbenzene and xylene			
Route of exposure	Value	Value determination	Source
Soil (agricultural)	2.31 mg/kg of dry substance of soil		
Microorganisms in sewage treatment	6.58 mg/l		
Sea sediments	12.46 mg/kg of dry substance of sediment		

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Do not store together with food, drink and animal feed. Remove contaminated clothes immediately. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Do not inhale vapours. Do not inhale aerosols. Prevent contact with skin and eyes.

Eye/face protection

Tightly sealed goggles. EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. Material of gloves: Nitrile rubber, NBR. Recommended thickness of the material: ≥ 0.5 mm. Penetration time of glove material: ≥ 240 min. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Protective antistatic clothing. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. EN13034+A1; EN1149; EN13688.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter A2/P2.

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	gas
Colour	transparent
Odour	after solvents
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	-44.5 °C
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	
bottom	0.7 %
upper	12.0 %
Flash point	-97 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	non-polar/aprotic
Kinematic viscosity	≤20.5 mm²/s at 40 °C
Solubility in water	almost insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	3400 hPa at 20 °C
Density and/or relative density	
Density	0.745 g/cm³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

Form	aerosol dispenser: spray aerosol

data not available

9.2. Other information

Evaporation rate	data not available
Ignition temperature	>200 °C
Explosive properties	The product does not have explosive properties but can be explosive when blended with air.
Content of organic solvents (VOC)	100.0 %
Max. VOC content in the product in its ready to use condition	745.0 g/l

Product is not selfigniting.

SECTION 10: Stability and reactivity

10.1. Reactivity
not available

10.2. Chemical stability
The product is stable under normal conditions.

10.3. Possibility of hazardous reactions
Unknown.

10.4. Conditions to avoid
not available

10.5. Incompatible materials
not available

10.6. Hazardous decomposition products
Unknown.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
No toxicological data is available for the mixture.

Acute toxicity
not available

2-butoxyethanol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	300 mg/kg		Rabbit	
Oral	LD_{50}	470 mg/kg		Rat	
Dermal	LD_{50}	2000 mg/kg		Rabbit	
Oral	ATE	1200 mg/kg bw			

butanone					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	>2193 mg/kg		Rat	
Dermal	LD_{50}	>5000 mg/kg		Rabbit	

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	>5000 mg/kg		Rat	
Dermal	LD_{50}	>2800 mg/kg		Rabbit	
Inhalation	LC_{50}	>23 mg/l	4 hours	Rat	

propan-2-ol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	5840 mg/kg		Rat	
Dermal	LD_{50}	13900 mg/kg		Rabbit	
Inhalation	LC_{50}	>25 mg/l	4 hours	Rat	

reaction mass of ethylbenzene and xylene					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	3523 mg/kg		Rat	
Dermal	LD_{50}	12126 mg/kg		Rabbit	
Inhalation	LC_{50}	29000 mg/l	4 hours	Rat	

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation
Based on available data the classification criteria are not met.

Germ cell mutagenicity
Based on available data the classification criteria are not met.

Carcinogenicity
Based on available data the classification criteria are not met.

Reproductive toxicity
Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure
May cause respiratory irritation. May cause drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard
May be fatal if swallowed and enters airways.

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
Harmful to aquatic life with long lasting effects.

Acute toxicity

2-butoxyethanol				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	1490 mg/l	96 hours	Fish (Lepomis macrochirus)	

butanone				
Parameter	Value	Exposure time	Species	Environment
EC_{50}	308 mg/l	48 hours	Invertebrates (Daphnia magna)	
LC_{50}	2993 mg/l	96 hours	Fish (Pimephales promelas)	

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics				
Parameter	Value	Exposure time	Species	Environment
LL_{50}	>13.4 mg/l	96 hours	Fish (Oncorhynchus mykiss)	
EC_{50}	3 mg/l	48 hours	Invertebrates (Daphnia magna)	
EL_{50}	10-30 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

propan-2-ol				
Parameter	Value	Exposure time	Species	Environment
LC_{50}	9714 mg/l	24 hours	Invertebrates (Daphnia magna)	
LC_{50}	9640 mg/l	96 hours	Fish (Pimephales promelas)	
EC_{50}	>100 mg/l		Bacteria	

reaction mass of ethylbenzene and xylene				
Parameter	Value	Exposure time	Species	Environment
EC_{50}	3.2-9.5 mg/l	48 hours	Daphnia (Daphnia magna)	
LC_{50}	8.9-16.4 mg/l	96 hours	Fish (Pimephales promelas)	

Chronic toxicity

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics				
Parameter	Value	Exposure time	Species	Environment
NOEC	0.17 mg/l	21 days	Invertebrates (Daphnia magna)	
LOEC	0.32 mg/l	21 days	Invertebrates (Daphnia magna)	
NOELR	10 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)	

propan-2-ol				
Parameter	Value	Exposure time	Species	Environment
LOEC	1000 mg/l	8 days	Algae	

reaction mass of ethylbenzene and xylene				
Parameter	Value	Exposure time	Species	Environment
NOEC	1.3 mg/l		Fish	

reaction mass of ethylbenzene and xylene				
Parameter	Value	Exposure time	Species	Environment
NOEC	0.96 mg/l	7 days	Daphnia (Daphnia magna)	
NOEC	0.44 mg/l	72 hours	Algae	
NOEC	16 mg/l	28 days	Bacteria	

12.2. Persistence and degradability

Limited biodegradability.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available.

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

Ecotoxical effects: Remark: Toxic for fish
Additional ecological information:
General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. 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

16 03 05* organic wastes containing hazardous substances

Packaging waste type code

15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

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

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SECTION 14: Transport information

14.1. UN number or ID number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

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

Stowage Code: SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. Segregation Code: SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

Hazard identification No.	
UN number	1950
Classification code	5F
Safety signs	2.1

Road transport - ADR

Excepted quantities	E0
Transport category	2
Tunnel restriction code	(D)

Railway transport - RID

Marine transport - IMDG

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

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

>=30 % aliphatic hydrocarbons, 5-<15 % aromatic hydrocarbons

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

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H302+H332	Harmful if swallowed or if inhaled.
H312+H332	Harmful in contact with skin or if inhaled.

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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403	Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C.

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_{50}	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL_{50}	Effective Loading for 50% of the tested organisms
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
LL_{50}	Lethal Loading for 50% of tested organisms
log Kow	Octanol-water partition coefficient
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
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
Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure
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 4.1 replaces the SDS version from 09 November 2022. Changes were made in sections 1, 8, 13, 15 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.