

BRAKE CLEANER

Creation date	28th April 2025	Version	5.0
Revision date			

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

Substance / mixture	BRAKE CLEANER
Number	mixture
UFI	R 34217
	SDDP-DU0A-J90S-J68D

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

Cleaning agent. For professional use only.

Main intended use

PC-CLN-17.5 Brake cleaners

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

Email address for a 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, H222, H229
Asp. Tox. 1, H304
Skin Irrit. 2, H315
Eye Irrit. 2, H319
STOT SE 3, H336
Aquatic Chronic 2, H411

Most serious adverse physico-chemical effects

Pressurised container: May burst if heated. Extremely flammable aerosol. Forms explosive mixtures with air.

Most serious adverse effects on human health and the environment

May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. Spray will evaporate and cool quickly and may cause frostbite or cold burns if in contact with skin. In high concentrations the vapors may have a narcotic effect.

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2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

Hydrocarbons, C6, isoalkanes, <5% n-hexane

acetone

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.

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.

P211

Do not spray on an open flame or other ignition source.

P251

Do not pierce or burn, even after use.

P261

Avoid breathing spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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.

P314

Get medical advice/attention if you feel unwell.

P410+P412

Protect from sunlight. Do not 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. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture.

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: 931-254-9 Registration number: 01-2119484651-34	Hydrocarbons, C6, isoalkanes, <5% n-hexane	60-70	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49	acetone	15-20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1, 2, 3
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25	propan-2-ol	15-20	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
CAS: 124-38-9 EC: 204-696-9	carbon-dioxide	5-8	Press. Gas (compressed gas), H280	1

Notes

- 1 A substance for which exposure limits are set.
- 2 Explosive precursor
- 3 Drug precursor

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 unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards. In the event of unconsciousness, do not provide food by mouth. Remove contaminated clothes.

If inhaled

Transfer the affected person to the fresh air and ensure calm environment for body and mind. If the victim is not breathing, perform artificial respiration. If aspiration into the lungs is suspected, e.g. when vomiting, admit to hospital immediately. In the event of issues, find medical help.

If on skin

Remove contaminated clothes. Wash with plenty of soap and water.

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

Unlikely. Ensure calm environment for body and mind. Rinse out the mouth with clean water. 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). Do not provide anything to eat or drink. 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.

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

May cause drowsiness or dizziness. Nausea. May cause respiratory irritation. Mucous membranes may be irritated.

If on skin

Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

If in eyes

Temporary feeling of burning and redness.

If swallowed

Unlikely. If swallowed or in case of vomiting, danger of entering the lungs. Symptoms of poisoning may manifest after many hours, medical supervision is necessary for 48 hours after the accident. Gastrointestinal symptoms. Nausea. Vomiting. Diarrhoea. The central nervous system may be affected.

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**

Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media

Water - full jet.

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.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. 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. Pressurised container: May burst if heated. Extremely flammable aerosol. Remove all ignition sources. Use personal protective equipment as per Section 8. Do not inhale vapours. Do not eat, drink or smoke when using this product. Keep unprotected persons away. Vapors from gases are heavier than air. Prevent vapors from entering drains.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains. Risk of formation of explosive vapours above water surface. Spilled product should be covered with suitable absorbing material.

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. Place the product mechanically in closed tightly containers and dispose of it as dangerous waste.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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

Ensure good ventilation/exhaustion at the workplace. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Keep away from heat, open flames. Use explosion-proof electrical equipment. Take action to prevent static discharges. Do not use compressed air for filling, emptying or another handling. Keep only in original packaging. Store in a dry place. Keep cool. Do not inhale vapours. Do not inhale aerosols. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Do not use solvents. Regular cleaning of equipment, work area and clothing is recommended. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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 away from heat, hot surfaces, sparks, open flames and other ignition sources. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Protect against strong acids and oxidizing agents. Use explosion-proof electrical equipment. Do not store in unlabeled containers.

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
acetone (CAS: 67-64-1)	OEL 8 hours	1210 mg/m ³
	OEL 8 hours	500 ppm

European Union
Commission Directive 2006/15/EC

Substance name (component)	Type	Value
carbon-dioxide (CAS: 124-38-9)	OEL 8 hours	9000 mg/m ³
	OEL 8 hours	5000 ppm

DNEL

acetone			
Workers / consumers	Route of exposure	Value	Effect
Consumers	Oral	62 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	62 mg/kg bw/day	Chronic effects systemic
Workers	Dermal	186 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	2420 mg/m ³	Acute effects local
Consumers	Inhalation	200 mg/m ³	Chronic effects systemic
Workers	Inhalation	1210 mg/m ³	Chronic effects systemic

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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 ³ /8h	Chronic effects systemic
Consumers	Dermal	1377 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	1131 mg/m ³ /24h	Chronic effects systemic
Consumers	Oral	1301 mg/kg bw/day	Chronic effects systemic

propan-2-ol

Workers / consumers	Route of exposure	Value	Effect
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/m ³	Chronic effects local
Workers	Inhalation	500 mg/m ³	Chronic effects systemic

PNEC

acetone

Route of exposure	Value
Marine water	1.06 mg/l
Freshwater sediment	30.4 mg/kg of dry substance of sediment
Soil (agricultural)	0.112 mg/kg
Sea sediments	3.04 mg/kg of dry substance of sediment
Microorganisms in sewage treatment	19.5 mg/l
Freshwater environment	10.6 mg/l
Water (regular leak)	21 mg/l

propan-2-ol

Route of exposure	Value
Freshwater environment	140.9 mg/l
Marine water	140.9 mg/l
Freshwater sediment	552 mg/kg
Sea sediments	552 mg/kg
Soil (agricultural)	28 mg/kg
Water (intermittent release)	140.9 mg/l
Microorganisms in sewage treatment	2251 mg/l
Secondary poisoning	160 mg/kg

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8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Ensure that persons handling with the product wear protective equipment. Take off contaminated clothing and wash before reuse. Prevent contact with skin and eyes. Do not inhale vapours. Do not inhale aerosols. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Do not store together with food, drink and animal feed.

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: Nitrile rubber, NBR. Butyl rubber. Penetration time of glove material: > 480 min. Do not use gloves made of: PVC. Natural rubber. 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.

When handling in long-term or repeatedly, use protective gloves. PVA. Fluororubber. Recommended thickness of the material: >0.45 mm.

In case of splash use: Nitrile rubber. Neoprene. Recommended thickness of the material: > 0.3 mm. Penetration time of glove material: >60 min.

Other protection: protective workwear and footwear. Wash contaminated clothing before reuse.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Filter AX. Filter A/P2. The protection provided by masks is in any case limited.

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	after solvents
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	-40--10 °C (Propellant)
acetone (CAS: 67-64-1)	55.8-56.6 °C
Hydrocarbons, C6, isoalkanes, <5% n-hexane	51-61 °C (ASTM D 1078)
propan-2-ol (CAS: 67-63-0)	82-83 °C
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	
bottom	1.8 % (Propellant)
upper	11.2 % (Propellant)
Flash point	-80 °C (Propellant)
acetone (CAS: 67-64-1)	-18 °C
Hydrocarbons, C6, isoalkanes, <5% n-hexane	<-35 °C (ASTM D 93)
propan-2-ol (CAS: 67-63-0)	13 °C
Auto-ignition temperature	data not available
Hydrocarbons, C6, isoalkanes, <5% n-hexane	>230 °C (ASTM E 659)
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	2400-4000 hPa at 20 °C (Propellant)

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Density and/or relative density	
Density	0.7 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	spray
data not available	

9.2. Other information

Evaporation rate	data not available
Content of organic solvents (VOC)	1 kg/kg

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable and no degradation occurs under normal use.

10.2. Chemical stability

The product is stable and no degradation occurs under normal use. Keep away from heat, open flames.

10.3. Possibility of hazardous reactions

Reacts with strong acids and oxidizing agents.

10.4. Conditions to avoid

Protect against flames, sparks, overheating. Take action to prevent static discharges.

10.5. Incompatible materials

Reacts with strong acids and oxidizing agents.

10.6. Hazardous decomposition products

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

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.

acetone						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		5800 mg/kg		Rat	
Inhalation (gases)	LC ₅₀		76 mg/l	24 hours	Rat	
Inhalation (gases)	LC ₅₀		>50100 mg/m ³	8 hours	Rat	
Oral	LD ₅₀		3000 mg/kg		Mouse	
Oral	LD		0.05 g/kg		Human	
Oral	IDLH (Immediately Dangerous for Life and Health)		2500 ppm			

Hydrocarbons, C6, isoalkanes, <5% n-hexane						
Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀	OECD 401	>16750 mg/kg bw		Rat	
Dermal	LD ₅₀	OECD 402	>3350 mg/kg bw	4 hours	Rabbit	

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Hydrocarbons, C6, isoalkanes, <5% n-hexane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Inhalation (vapor)	LC ₅₀	OECD 403	259354 mg/m ³	4 hours	Rat	

propan-2-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD ₅₀		>2000 mg/kg		Rat	
Dermal	LD ₅₀		>2000 mg/kg		Rabbit	

Skin corrosion/irritation

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

Serious eye damage/irritation

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

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.

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

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SECTION 12: Ecological information
12.1. Toxicity

Toxic to aquatic life with long lasting effects.

Acute toxicity

acetone					
Parameter	Value	Exposure time	Species	Environment	Value determination
LC ₅₀	5540 mg/l	96 hours	Fish (Oncorhynchus mykiss)		
LC ₅₀	8300 mg/l	96 hours	Fish (Lepomis macrochirus)		
LC ₅₀	12600 mg/l	48 hours	Daphnia (Daphnia magna)		
NOEC	4740 mg/l	48 hours	Algae (Pseudokirchneriella subcapitata)		

Hydrocarbons, C6, isoalkanes, <5% n-hexane					
Parameter	Value	Exposure time	Species	Environment	Value determination
ErL ₅₀	13.6 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		QSAR
EL ₅₀	31.9 mg/l	48 hours	Daphnia (Daphnia magna)		QSAR
LL ₅₀	18.3 mg/l	96 hours	Fish (Oncorhynchus mykiss)		QSAR
NOELR	3 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		QSAR, Indicator of growth

propan-2-ol					
Parameter	Value	Exposure time	Species	Environment	Value determination
LC ₅₀	>100 mg/l	48 hours	Fish (Leuciscus idus)		
EC ₅₀	>100 mg/l	48 hours	Daphnia (Daphnia magna)		
EC ₅₀	>100 mg/l	72 hours	Algae (Scenedesmus subspicatus)		

Chronic toxicity

Hydrocarbons, C6, isoalkanes, <5% n-hexane					
Parameter	Value	Exposure time	Species	Environment	Value determination
NOELR	7.14 mg/l	21 days	Daphnia (Daphnia magna)		QSAR
NOELR	4.09 mg/l	28 days	Fish (Oncorhynchus mykiss)		QSAR

12.2. Persistence and degradability

Data for the mixture are not available.

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Biodegradability

acetone					
Parameter	Method	Value	Exposure time	Environment	Result
		91 %	28 days		Easily biodegradable

Hydrocarbons, C6, isoalkanes, <5% n-hexane					
Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301F	98 %	28 days		Easily biodegradable

12.3. Bioaccumulative potential

Data for the mixture are not available.

Hydrocarbons, C6, isoalkanes, <5% n-hexane					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	3.6				

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.

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

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. Dispose unused product as hazardous waste. Pressurised container: May burst if heated. 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

14 06 03* other solvents and solvent mixtures

Packaging waste type code

16 05 04* gases in pressure containers (including halons) containing hazardous substances

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

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

UN 1950

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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

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

Additional information

Hazard identification No.

UN number

Classification code

Safety signs



5F

2.1+hazardous for the environment

**Road transport - ADR****Railway transport - RID****Marine transport - IMDG**

EmS (emergency plan)

Marine pollutant

F-D, S-U

Yes

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. Product contains reportable explosives precursors: Reporting of suspicious transactions, disappearances and thefts according to Regulation (EU) 2019/1148, Article 9. 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 amendedComposition according to (EC) No 648/2004, as amended: ≥ 30 % aliphatic 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**

EUH066

Repeated exposure may cause skin dryness or cracking.

H222

Extremely flammable aerosol.

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H225	Highly 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.
H336	May cause drowsiness or dizziness.
H411	Toxic 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.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.
P314	Get medical advice/attention if you feel unwell.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

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	Agreement concerning the international carriage of dangerous goods by road
Aerosol	Aerosol
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 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
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 ₅₀	Lethal concentration of a substance in which it can be expected death of 50% of the population

SAFETY DATA SHEET

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

BRAKE CLEANER

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Revision date			

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 K _{ow}	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
PMT	Persistent, mobile and toxic
ppm	Parts per million
Press. Gas	Gases under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure
UN number	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 5.0 replaces the SDS version from Tuesday, 16 July 2024. Changes were made in sections 1, 2, 3, 8, 9, 11, 12, 13 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.