

BRAKE CLEANER 500

Creation date	18th October 2021	Version	3.0
Revision date			

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

- 1.1. Product identifier**
Substance / mixture BRAKE CLEANER 500
Number mixture
R 34216
UFI Y4MJ-EY9T-V008-Y57D
- 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.

Aerosol 1, H222, H229
Asp. Tox. 1, H304
Eye Irrit. 2, H319
STOT SE 3, H336
Aquatic Chronic 2, H411

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

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

- 2.2. Label elements**

Hazard pictogram**Signal word**

Danger

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Hazardous substances

 Solvent naphtha (petroleum), light aliph.
 acetone

Hazard statements

 H222 Extremely flammable aerosol.
 H229 Pressurised container: May burst if heated.
 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.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 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.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air. Take action to prevent static discharges. Avoid release to the environment. 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
CAS: 74-98-6 EC: 200-827-9	propane	<50	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
CAS: 106-97-8 EC: 203-448-7	butane	<50	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
CAS: 75-28-5 EC: 200-857-2	isobutane	<50	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
Index: 649-267-00-0 CAS: 64742-89-8 EC: 265-192-2	Solvent naphtha (petroleum), light aliph.	≤40	Flam. Liq. 2, H225 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066	2, 3

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49	acetone	≤10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	1

Notes

- Substance with a Union workplace exposure limit.
- Note P: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.
- Fulfilled Note P

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**

Transfer the affected person to the fresh air. Terminate the exposure immediately; move the affected person to fresh air. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. In the event of unconsciousness, do not provide food by mouth.

If inhaled

Remove person to fresh air and keep comfortable for breathing. Keep the affected person warm and at rest. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Wash with plenty of soap and water. In the event of issues, find medical help.

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. DO NOT INDUCE VOMITING! Provide medical treatment.

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

May cause drowsiness or dizziness. Possible irritation.

If on skin

Possible irritation. Absorption through the skin may occur causing symptoms similar to those of inhalation or ingestion. May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking.

If in eyes

Causes serious eye irritation. Watering. Redness.

If swallowed

Possible irritation. If swallowed or in case of vomiting, danger of entering the lungs. Subsequent observation for pneumonia and pulmonary oedema.

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

The central nervous system may be affected. If swallowed or in case of vomiting, danger of entering the lungs. Subsequent observation for pneumonia and pulmonary oedema. Bring an original container with the label and the Safety Data Sheet of the given substance as appropriate.

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

Alcohol-resistant foam. Powder. Water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

Pressurised container: May burst if heated. Vapours mixed up with air can be explosive. 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

Evacuate area. Fight fire with normal precautions from a reasonable distance. Do not inhale gases and vapours. Move containers from fire area if safe to do. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water.

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. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes. All persons not taking part in rescue operations must be kept away to a sufficient distance. Keep unprotected persons away. Prevent vapors from entering drains. Explosion risk.

6.2. Environmental precautions

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Prevent vapors from entering drains. Explosion risk. Not considered to be a significant hazard due to the small quantities used.

6.3. Methods and material for containment and cleaning up

Remove all ignition sources. 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. Stop leak if safe to do so. Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. Use non-sparking tools.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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

Observe valid legal regulations on safety and health protection. Do not inhale aerosols. Prevent contact with skin and eyes. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurised container: May burst if heated. Do not pierce or burn, even after use. Keep away from sources of heating, ignition and direct sunlight. Do not spray on an open flame or other ignition source.

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. Take action to prevent static discharges. Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Do not store together with food, drink and animal feed.

Content	Packaging type	Material of package
500 ml	aerosol can	

Storage temperature min 0 °C, max 35 °C

7.3. Specific end use(s)

See the Section 1.2.

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

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

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Substance name (component)	Type	Value
acetone (CAS: 67-64-1)	OEL 8 hours	1210 mg/m ³
	OEL 8 hours	500 ppm

8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Do not get in eyes, on skin, or on clothing. 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. Ensure eye bath is to hand.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. EN166 - Personal Eye Protection Standard.

Skin protection

Hand protection: Protective gloves resistant to the product. Material of gloves: Nitrile rubber, NBR. EN ISO 374-1. Other protection: protective workwear.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respirator. Filter A.

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	colourless
Odour	characteristic
Melting point/freezing point	-187,6--138,3 °C (propellant)
Boiling point or initial boiling point and boiling range	-104--60 °C (propellant)
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	
bottom	1 % (CAS 64742-89-8)
upper	6,5 % (CAS 64742-89-8)
Flash point	<21 °C (CAS 64742-89-8)
Auto-ignition temperature	287-537 °C (propellant)
Decomposition temperature	data not available
pH	gas
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	250 hPa (cas 64742-89-8)
Density and/or relative density	
Density	0,71-0,73 g/cm ³ (CAS 64742-89-8)
Form	aerosol
data not available	

9.2. Other information

Evaporation rate data not available

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

not available

10.2. Chemical stability

The product is stable under normal conditions.

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10.3. Possibility of hazardous reactions

Solvent gases are heavier than air and accumulate mainly on the floor where they can form an explosive mixture when mixed with air.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Pressurised container: May burst if heated. Do not pierce or burn, even after use. Keep away from sources of heating, ignition and direct sunlight. Do not spray on an open flame or other ignition source.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

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

not available

Acute toxicity

Based on available data the classification criteria are not met.

acetone

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method
Oral	LD ₅₀	5800 mg/kg		Rat		Literary studies
Dermal	LD ₅₀	7426 mg/kg		Rabbit		Literary studies
Inhalation	LC ₅₀	12 ppm	4 hour	Rat		Literary studies

butane

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method
Inhalation	LC ₅₀	658 mg/l		Rat		Literary studies

isobutane

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method
Inhalation	LC ₅₀	974 mg/l		Mouse		Literary studies

propane

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method
Inhalation	LC ₅₀	1443 mg/l		Rat		Literary studies

Solvent naphtha (petroleum), light aliph.

Route of exposure	Parameter	Value	Time of exposure	Species	Sex	Determining method
Oral	LD ₅₀	>5000 mg/kg		Rat		
Dermal	LD ₅₀	>2000 mg/kg		Rabbit		
Inhalation	LC ₅₀	50-100 mg/l	8 hour	Rat		

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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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 drowsiness or dizziness.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

11.2. Information on other hazards

not available

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Toxic to aquatic life with long lasting effects.

acetone

Parameter	Value	Time of exposure	Species	Environment	Determining method
EC ₅₀	5540 mg/l	96 hour	Fishes		
EC ₅₀	13500 mg/l	48 hour	Daphnia		

butane

Parameter	Value	Time of exposure	Species	Environment	Determining method
LC ₅₀	24.11 mg/l		Fishes		Literary studies
LC ₅₀	14.22 mg/l		Aquatic invertebrates		Literary studies
EC ₅₀	7.71 mg/l	96 hour	Algae		Literary studies

isobutane

Parameter	Value	Time of exposure	Species	Environment	Determining method
LC ₅₀	27.89 mg/l		Fishes		Literary studies
LC ₅₀	16.33 mg/l		Aquatic invertebrates		Literary studies
LC ₅₀	89.57 mg/l	96 hour	Algae		Literary studies

propane

Parameter	Value	Time of exposure	Species	Environment	Determining method
LC ₅₀	49.47 mg/l		Fishes		Literary studies
LC ₅₀	27.14 mg/l		Aquatic invertebrates		Literary studies
EC ₅₀	11.89 mg/l	72 hour	Algae		Literary studies

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Solvent naphtha (petroleum), light aliph.

Parameter	Value	Time of exposure	Species	Environment	Determining method
EC ₅₀	100 mg/l	96 hour	Fishes		
EC ₅₀	3.8 mg/l	48 hour	Daphnia		

12.2. Persistence and degradability

Data not available.

12.3. Bioaccumulative potential

butane

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Determining method
	1.09-2.8					Literary studies

isobutane

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Determining method
	1.09-2.8					Literary studies

propane

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Determining method
	1.09-2.8					Literary studies

Solvent naphtha (petroleum), light aliph.

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Determining method
Log Pow	3-6					

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

not available

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.

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.

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Waste type code

16 05 04 gases in pressure containers (including halons) 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

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

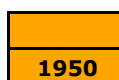
Additional information

Hazard identification No.

UN number

Classification code

Safety signs



5F

2.1+hazardous for the environment

**Road transport - ADR**

Limited quantities

1L

Transport category

2

Tunnel restriction code

(B/D)

Railway transport - RID**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 of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, 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.

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

>=30 % aliphatic hydrocarbons

15.2. Chemical safety assessment

not available

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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.
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.
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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing spray.
P271	Use only outdoors or in a well-ventilated area.

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

EUH066	Repeated exposure may cause skin dryness or cracking.
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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
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
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

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MARPOL	International Convention for the Prevention of Pollution from Ships
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

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
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 3.0 replaces the SDS version from 28 February 2018. Changes were made in sections 1, 2, 3, 7, 8, 9, 11, 12, 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.