

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

# **BRAKE CLEANER 500**

Creation date 30. June 2014

Revision date 07. May 2018 Version 2.0

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

1.1. Product identifier BRAKE CLEANER 500

Substance / mixture mixture Number R 34216

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

mixture's intended use Cleaning agent.

#### The use descriptors

SU 22 Professional uses: Public domain (administration, education, entertainment, services,

craftsmen)

PROC 7 Industrial spraying
PROC 11 Non industrial spraying

ERC 8a Widespread use of non-reactive processing aid (no inclusion into or onto article,

indoor)

ERC 8d Widespread use of non-reactive processing aid (no inclusion into or onto article,

outdoor)

Disapproved uses of mixture 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 (ID) 25018205

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

RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)

Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

#### **SECTION 2: Hazards identification**

# 2.1. Substance or mixture classification

#### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H222, H229 Skin Irrit. 2, H315 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

Causes skin irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.



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#### 2.2. Label elements

### **Hazard pictogram**







#### Signal word

Danger

#### **Hazardous substances**

Naphtha (petroleum), hydrotreated light

#### **Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

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 spray.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F. P501 Dispose of contents/container to in accordance with national regulations.

## **Supplemental information**

### 2.3. Other hazards

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: 921-024-6 Registration number: 01-2119475514-35	Naphtha (petroleum), hydrotreated light	75-100	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	
CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	2,5-5	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
CAS: 124-38-9 EC: 204-696-9	Carbon dioxide	2,5-5	Press. Gas (liquefied gas), H280	1



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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 106-97-8 EC: 203-448-7 Registration number: 01-2119474691-32	butane (containing < 0,1 % butadiene (203-450-8))	2,5-5	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
CAS: 75-28-5 EC: 200-857-2	butane (containing < 0,1 % butadiene (203-450-8))	2,5-5	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	

#### **Notes**

1 Substance for which exposure limits of Community for working environment exist.

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.

#### **Inhalation**

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

#### Skin contact

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

#### Eye contact

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. In the event of issues, find medical advice.

#### **Ingestion**

Rinse out the mouth with clean water. Provide medical treatment.

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

#### Inhalation

May cause drowsiness or dizziness.

#### Skin contact

Causes skin irritation.

# Eye contact

When intruding eyes, it can evoke irritation.

# **Ingestion**

Irritation, nausea.

#### 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

Carbon dioxide, powder, water spray jet. Fight larger fires with water spray or alcohol resistant foam.

### 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.



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#### **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.

#### 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.

#### 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. 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

Keep cool. Observe official regulations on storing packagings with pressurized containers.

Storage class 2B - Aerosols

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

Keep away from sources of heating, ignition and direct sunlight.

# 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**

Substance name (component)	Туре	Time of exposure	Value	Note	Source
Carbon dioxide (CAS: 124-38-9)	OEL	8 hours	9000 mg/m <sup>3</sup>		EU limits
	OEL	8 hours	5000 ppm		EU IIIIIIIS

# United Kingdom of Great Britain and Northern Ireland

Substance name (component)	Туре	Time of exposure	Value	Note	Source
	WEL	8 hours	9150 mg/m <sup>3</sup>		- GBR
Carbon dioxide (CAS: 124-38-	WEL	15 minutes	27400 mg/m <sup>3</sup>		
9)	WEL	8 hours	5000 ppm		
	WEL	15 minutes	15000 ppm		
butane (containing < 0,1 % butadiene (203-450-8)) (CAS: 106-97-8)	WEL	8 hours	600 ppm		GBR



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### **United Kingdom of Great Britain and Northern Ireland**

Substance name (component)	Туре	Time of exposure	Value	Note	Source
	WEL	8 hours	1450 mg/m³		
butane (containing < 0,1 % butadiene (203-450-8)) (CAS: 106-97-8)	WEL	15 minutes	1810 mg/m³		GBR
	WEL	15 minutes	750 ppm		

#### 8.2. Exposure controls

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin.

## Eye/face protection

It is not needed.

#### Skin protection

Hand protection: Protective gloves resistant to the product. Material of gloves: When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Other protection: protective workwear.

### **Respiratory protection**

It is not needed.

### 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

Appearance aerosol
Physical state liquid at 20°C
color colourless
Odour after solvents
Odour threshold data not available
pH data not available
Melting point/freezing point data not available
Initial boiling point and boiling range data not available

Flash point -12 °C

Evaporation rate data not available

Flammability (solid, gas) Extremely flammable aerosol.

Upper/lower flammability or explosive limits

flammability limits data not available

explosive limits

bottom 0.6 % upper 7.0 %

Vapour pressure 3500 hPa at 20 °C Vapour density data not available Relative density data not available

Solubility(ies)

solubility in water almost insoluble solubility in fats data not available



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Partition coefficient: n-octanol/water data not available
Auto-ignition temperature data not available
Decomposition temperature data not available
Viscosity data not available

Explosive properties

The product does not have explosive properties but

can be explosive when blended with air.

Oxidising properties data not available

data not available

9.2. Other information

Density 0.69 g/cm³ at 20 °C

ignition temperature >200 °C content of organic solvents (VOC) 96.6 % Max. VOC content in the product in its ready to use 666.8 g/l

Product is not selfigniting.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

not available

#### 10.2. Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

#### 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 toxicological effects

No toxicological data is available for the mixture.

#### **Acute toxicity**

Based on available data the classification criteria are not met.

butane (containing < 0,1 % butadiene (203-450-8))

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Inhalation	LC50	658000 mg/m <sup>3</sup>	4 hour	Rat	

## Naphtha (petroleum), hydrotreated light

Route of exposure	Parameter	Value	Time of exposure	Species	Sex
Oral	LD50	>5840 mg/kg		Rat	
Dermal	LD50	>2920 mg/kg		Rabbit	
Inhalation	LC50	>2 mg/l	4 hour	Rat	

### Skin corrosion/irritation

Causes skin irritation.



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#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### 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 drowsiness or dizziness.

# Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### **Aspiration hazard**

Based on available data the classification criteria are not met.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

#### **Acute toxicity**

Toxic to aquatic life with long lasting effects.

Naphtha (petroleum), hydrotreated light

Parameter	Value	Time of exposure	Species	Environment
EC50	3 mg/l	48 hour	Daphnia (Daphnia magna)	
LC50	11.4 mg/l	96 hour	Fishes	
EC50	30-100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

# 12.2. Persistence and degradability

Data not available.

# 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. Other adverse effects



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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

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.

#### Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

16 03 05 organic wastes containing dangerous substances

#### Packaging waste type code

metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

#### **SECTION 14: Transport information**

#### 14.1. UN number

UN 1950

#### 14.2. UN proper shipping name

**AEROSOLS** 

## 14.3. Transport hazard class(es)

2 Gases

## 14.4. Packing group

not available

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS.

#### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available



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#### **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.

1950

5F

Hazard identification No.

UN number

Classification code

Safety signs

(Kemler Code)

2.1+hazardous for the environment





#### Road transport ADR

Limited amount 1L
Transport category 2
Tunnel restriction code (D)

#### **Marine transport - IMDG**

Hazard initiator Naphtha (petroleum), hydrotreated light

EmS (emergency plan) F-D, S-U Marine pollution 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 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. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). Decree No. 80/2014 Coll., amending the Decree No. 194/2001 Coll., laying down technical requirements for aerosol sprays as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended.

#### 15.2. Chemical safety assessment

not available

#### **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.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.



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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.

P251 Do not pierce or burn, even after use.

P211 Do not spray on an open flame or other ignition source.

P410+P412 Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container to in accordance with national regulations.

P260 Do not breathe spray.

#### 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

DNEL Derived no-effect level

EC Identification code for each substance listed in EINECS

EC50 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

IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying Dangerous

Chemicals

IC50 Concentration causing 50% blockade
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

LC50 Lethal concentration of a substance in which it can be expected death of 50% of the

population

LD50 Lethal dose of a substance in which it can be expected death of 50% of the

population

LOAEC Lowest observed adverse effect concentration

LOAEL Lowest observed adverse effect level log Kow Octanol-water partition coefficient

MARPOL International Convention for the Prevention of Pollution From Ships

NOAEC No observed adverse effect concentration

NOAEL No observed adverse effect level NOEC No observed effect concentration

NOEL No observed effect level OEL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic PNEC Predicted no-effect concentration

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail



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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 Flammable aerosol

Aquatic Chronic Hazardous to the aquatic environment

Asp. Tox. Aspiration hazard
Flam. Gas Flammable gas
Flam. Liq. Flammable liquid
Press. Gas Gases under pressure

Skin Irrit. Skin irritation

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)

2, 3, 8, 11, 12, 15, 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.