

**Brake Cleaner, Aerosol 500 ml**

Revision date: 27.04.2018

Product code: 769

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

**1.1. Product identifier**

Brake Cleaner, Aerosol 500 ml

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

**Use of the substance/mixture**

Cleaning agent.

**1.3. Details of the supplier of the safety data sheet**

Company name:	CTP GmbH	
Street:	Saalfelder Strasse 35h	
Place:	D-07338 Leutenberg	
Telephone:	+49 (0)36734 230-0	Telefax: +49 (0)36734 230-22
e-mail:	msds@bluechemgroup.com	
Contact person:	Jens Moeller, Dipl.-Chem.	Telephone: +49 (0)36734 230-19
Internet:	www.bluechemgroup.com	

**1.4. Emergency telephone number:**

GBK GmbH: +49-(0)6132-84463 (24/7)

**Further Information**

Article Number: 6111, 6111-2

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: Aerosol 1

Skin corrosion/irritation: Skin Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

**2.2. Label elements**

**Regulation (EC) No. 1272/2008**

**Hazard components for labelling**

Hydrocarbons C7, n-alkanes, iso-alkanes, cyclics

Hydrocarbons, C6-C7, n-Alkanes, Isoalkanes, Cyclenes, < 5% n-hexane

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

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H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
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 Vapour/aerosole.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
P501 Dispose of this material and its container to hazardous or special waste collection point.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Chemical characterization**

Solvent mixture

Aerosol propellant:  
Propane/butane-mixture  
Carbon dioxide (CO<sub>2</sub>)

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64742-49-0	Hydrocarbons C7, n-alkanes, iso-alkanes, cyclics			25 - 50 %
	927-510-4		01-2119475515-33	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
N/A	Hydrocarbons, C6-C7, n-Alkanes, Isoalkanes, Cyclenes, < 5% n-hexane			25 - 50 %
	921-024-6		01-2119475514-35	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
74-98-6	propane			2,5 - 10 %
	200-827-9	601-003-00-5		
	Flam. Gas 1; H220			
75-28-5	isobutane			2,5 - 10 %
	200-857-2	601-004-00-0		
	Flam. Gas 1; H220			
124-38-9	carbon dioxide			2,5 - 10 %
	204-696-9			
	Compressed gas; H280			

Full text of H and EUH statements: see section 16.

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**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove affected person from the danger area and lay down.  
Change contaminated clothing.

**After inhalation**

Provide fresh air. If victim is at risk of losing consciousness, position and transport on their side.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap.  
In case of skin irritation, seek medical treatment.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

Do NOT induce vomiting. Consult physician.

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

No information available.

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

The following symptoms may occur:  
unconsciousness. Intoxication. vomiting. drowsiness. Headache.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Extinguishing powder.  
Carbon dioxide (CO<sub>2</sub>).  
Water fog.  
alcohol resistant foam.

**Unsuitable extinguishing media**

High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Swims on the water.  
Vapours are heavier than air and will spread at floor level. Heating causes the generation of toxic gases.  
In use, may form flammable/explosive vapour-air mixture.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Cool endangered container in case of fire.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Wear suitable solvent-proof protective clothing according to EN 465. Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes.  
Do not breathe gas/fumes/vapour/spray.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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**6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

**6.4. Reference to other sections**

Explosive. Vapours may form explosive mixtures with air.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Keep only in the original container in a cool, well-ventilated place. Have to care for a good Ventilation at workplace.

**Advice on protection against fire and explosion**

Vapours may form explosive mixtures with air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

The floor should be leak tight, jointless and not absorbent. Keep only in the original container in a cool, well-ventilated place. Do not store at temperatures over: 50 °C  
Heating causes rise in pressure with risk of bursting.

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
74-98-6	Aliphatic hydrocarbon gases, Alkanes (C1-C4), Propane	1000	-	-	TWA (8 h)	
		-	-	-	STEL (15 min)	
124-38-9	Carbon dioxide	5000	9000	-	TWA (8 h)	
		-	-	-	STEL (15 min)	

**8.2. Exposure controls**

**Protective and hygiene measures**

Keep away from food, drink and animal feedingstuffs.  
Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work.  
Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes.

**Eye/face protection**

Wear tightly sealed safety glasses against possible splashes into the eyes.

**Hand protection**

Tested protective gloves are to be worn: FKM (Fluoroelastomer (Viton)).NBR (Nitrile rubber).  
Material thickness: >= 0,45 mm  
penetration time: >= 240 min

**Skin protection**

Protective clothing.

**Respiratory protection**

Have to care for a good Ventilation at workplace.

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**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	Aerosol
Colour:	colourless
Odour:	characteristic

**Changes in the physical state**

Flash point:	not applicable
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**Explosive properties**

In use, may form flammable/explosive vapour-air mixture.

Ignition temperature:	> 200 °C
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Density (at 20 °C):	0,69 g/cm <sup>3</sup>
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Water solubility: (at 20 °C)	partially soluble
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Solvent content:	96,6 %
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**9.2. Other information**

No data

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

No decomposition when used as intended.

**10.3. Possibility of hazardous reactions**

No dangerous reactions are known.

**10.4. Conditions to avoid**

Do not store at temperatures over: 50 °C  
Keep away from heat.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

Aldehydes  
Carbon monoxide (CO).  
Carbon dioxide (CO<sub>2</sub>).

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

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**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64742-49-0	Hydrocarbons C7, n-alkanes, iso-alkanes, cyclics				
	oral	LD50 >5840 mg/kg	Rat		
	dermal	LD50 >2920 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 23,3 mg/l	Rat		
N/A	Hydrocarbons, C6-C7, n-Alkanes, Isoalkanes, Cyclenes, < 5% n-hexane				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
	inhalation (4 h) vapour	LC50 >20 mg/l	Rat		

**Irritation and corrosivity**

Frequently or prolonged contact with skin may cause dermal irritation.

Irritation of eyes: Irritant effect possible.

**SECTION 12: Ecological information**

**12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
64742-49-0	Hydrocarbons C7, n-alkanes, iso-alkanes, cyclics					
	Acute fish toxicity	LC50 >13,4 mg/l	96 h	fish		
	Acute algae toxicity	ErC50 10-30 mg/l	72 h	algae		
	Acute crustacea toxicity	EC50 3,0 mg/l	48 h	Dm		
N/A	Hydrocarbons, C6-C7, n-Alkanes, Isoalkanes, Cyclenes, < 5% n-hexane					
	Acute fish toxicity	LC50 11,4 mg/l	96 h	Oncorhynchus mykiss		
	Acute algae toxicity	ErC50 30 mg/l	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 3 mg/l	48 h	Daphnia magna		

**12.2. Persistence and degradability**

No information available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
N/A	Hydrocarbons, C6-C7, n-Alkanes, Isoalkanes, Cyclenes, < 5% n-hexane			
	Biodegradation	81%	28	
	Easily biodegradable (concerning to the criteria of the OECD)			

**12.3. Bioaccumulative potential**

Swims on the water.

Low potential of bio-accumulation.

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**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
74-98-6	propane	2,36
75-28-5	isobutane	2,8

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Do not dispose with household waste.

Do not empty into drains or the aquatic environment.

**Waste disposal number of waste from residues/unused products**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**Waste disposal number of used product**

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**Waste disposal number of contaminated packaging**

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

**Contaminated packaging**

Dispose of waste according to applicable legislation.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:**

UN 1950

**14.2. UN proper shipping name:**

AEROSOLS  
Propane/butane-mixture

**14.3. Transport hazard class(es):**

2

**14.4. Packing group:**

-

Hazard label:

2.1



Classification code:

5F

Special Provisions:

190 327 344 625

Limited quantity:

1 L

Excepted quantity:

E0

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Transport category: 2  
Hazard No: -  
Tunnel restriction code: D

**Inland waterways transport (ADN)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
Propane/butane-mixture  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L  
Excepted quantity: E0

**Marine transport (IMDG)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
Propane/butane-mixture  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



Marine pollutant: P  
Special Provisions: 63, 190, 277, 327, 344, 381,959  
Limited quantity: 1000 mL  
Excepted quantity: E0  
EmS: F-D, S-U

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable  
Propane/butane-mixture  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1



Special Provisions: A145 A167 A802  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y203  
Excepted quantity: E0  
IATA-packing instructions - Passenger: 203  
IATA-max. quantity - Passenger: 75 kg



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IATA-packing instructions - Cargo: 203  
IATA-max. quantity - Cargo: 150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: Low boiling point hydrogen treated naphtha, Naphtha (petroleum, gasoline), hydrotreated light

**14.6. Special precautions for user**

No information available.

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

No information available.

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 28: Hydrocarbons C7, n-alkanes, iso-alkanes, cyclics; isobutane

2004/42/EC (VOC): 665,9 g/l

**Additional information**

Contains:

> 30 % hydrocarbons, aliphatic.

**National regulatory information**

Water contaminating class (D): 2 - clearly water contaminating

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**

**Relevant H and EUH statements (number and full text)**

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.  
H411 Toxic to aquatic life with long lasting effects.

**Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*