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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision: 25.06.2008 Replaces the version of: 15.02.2007 PDF date: 25.06.2008  
Brake & Chain Cleaner 500ml Art.: 500114

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance or preparation

#### Brake & Chain Cleaner 500ml

Art.: 500114

#### Use of the substance/preparation

For efficient removal of hazardous dust and contamination from brakes and clutches

#### Company/undertaking identification

Wurth UK Ltd 1 Centurion Way, Erith, UK-DA18 4AE Kent  
Telephone 020 8319 6000, Fax 020 8319 6400

Distributor: see point 16 of this EC safety data sheet

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

#### Emergency telephone

#### Advisory office in case of poisoning:

Tel.: +49 30 / 19240 Berlin

#### Telephone number of the company in case of emergencies:

Tel. 020 8319 6000 (08-00 h - 18-00 h)

### 2. HAZARDS IDENTIFICATION

#### To people

See point 11 and 15.

Preparation is classified as hazardous in the sense of directive 1999/45/EC.

Product removes fat

Product is highly flammable.

Danger of bursting (explosion) when heated.

When using: development of explosive vapour/air mixture possible.

Vapours may cause drowsiness and dizziness

Repeated exposure may cause skin dryness or cracking.

Product results in an irritant effect.

#### To the environment

See point 12.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### REGULATION (EC) No 648/2004

30 % and more  
aliphatic hydrocarbons

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Aerosol

Chemical name	Symbol	R-phrases	EINECS, ELINCS
content %	Registration number (ECHA)	DNEL	PNEC
Naphtha (petroleum), hydrotreated light			

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25 - 50	F/Xn/Xi/N	11-38-51-53-65-67	265-151-9
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Naphtha (petroleum), hydrotreated light			
25 - 50	F/Xn/Xi/N	11-38-51-53-65-67	265-151-9

Carbon dioxide		Substance for which an EU exposure limit value applies.	
1 - 10			204-696-9

Propan-2-ol			
20 - 30	F/Xi	11-36-67	200-661-7

For complete wording of the R-phrases, refer to point 16.

#### 4. FIRST AID MEASURES

##### 4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.

##### 4.2 Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

##### 4.3 Skin contact

Wash thoroughly with soap and water.  
Remove contaminated clothing immediately.

##### 4.4 Ingestion

Consult doctor immediately - keep Data Sheet available.  
Do not induce vomiting.  
Danger of aspiration.

##### 4.5 Special resources necessary for first aid

n.c.

#### 5. FIRE-FIGHTING MEASURES

##### 5.1 Suitable extinguishing media

Cool container at risk with water.

CO2

Water jet spray

Extinction powder

Large fire:

Alcohol resistant foam

##### 5.2 Extinguishing media which shall not be used for safety reasons

High volume water jet

##### 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Danger of explosion by prolonged heating.

##### 5.4 Special protective equipment for fire-fighters

According to size of fire

Protective respirator with independent air supply

Full protection, if necessary

##### 5.5 Further information

Dispose of contaminated extinction water according to official regulations.

#### 6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

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### 6.1 Personal precautions

Remove possible causes of ignition - do not smoke.  
 Ensure sufficient supply of air.  
 Avoid inhalation, and contact with eyes or skin.

### 6.2 Environmental precautions

If leakage occurs, dam up.  
 Prevent from entering drainage system.  
 Prevent surface and ground-water infiltration, as well as ground penetration.

### 6.3 Methods for cleaning up

If spray or gas escapes, ensure ample fresh air is available.  
 Active substance:  
 Collect using absorbant material (e.g. Universal binding medium, sand, kieselguhr) and dispose of according to point 13.

## 7. HANDLING AND STORAGE

### 7.1 Handling

#### Tips for safe handling:

See point 6.1  
 Keep away from sources of ignition - Do not smoke.  
 Ensure good ventilation.  
 Without adequate ventilation, formation of explosive mixtures may be possible.  
 Take measures against electrostatic charging, if appropriate.  
 Observe directions on label and instructions for use.

### 7.2. Storage

#### Requirements for storage rooms and containers:






Not to be stored in gangways or stair wells.  
 Observe special regulations for aerosols.

#### Special storage conditions:

See point 10  
 Keep protected from direct sunlight and temperatures over 50°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values

	<b>Chemical Name</b>	Naphtha (petroleum), hydrotreated light	Content %:25 - 50
	WEL-TWA: 700 mg/m3 (AGW)	WEL-STEL: 4(II) (AGW)	---
	BMGV: ---	Other information: ---	
	<b>Chemical Name</b>	Naphtha (petroleum), hydrotreated light	Content %:25 - 50
	WEL-TWA: 700 mg/m3 (AGW)	WEL-STEL: 4(II) (AGW)	---
	BMGV: ---	Other information: ---	
	<b>Chemical Name</b>	Naphtha (petroleum), hydrotreated light	Content %:25 - 50
	WEL-TWA: 800 mg/m3 (WEL), 1200 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---
	BMGV: ---	Other information: ---	
	<b>Chemical Name</b>	Naphtha (petroleum), hydrotreated light	Content %:25 - 50
	WEL-TWA: 800 mg/m3 (WEL), 1200 mg/m3 (AGW)	WEL-STEL: 2(II) (AGW)	---
	BMGV: ---	Other information: ---	
	<b>Chemical Name</b>	Carbon dioxide	Content %:1 - 10
	WEL-TWA: 5000 ppm (9150 mg/m3) (WEL), 5000 ppm (9000 mg/m3) (EC)	WEL-STEL: 15000 ppm (27400 mg/m3) (WEL)	---

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BMGV: ---	Other information: ---
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Chemical Name	Carbon dioxide	Content %:1 - 10
WEL-TWA: 5000 ppm (9150 mg/m3) (WEL), 5000 ppm (9000 mg/m3) (EC)	WEL-STEL: 15000 ppm (27400 mg/m3) (WEL)	---
BMGV: ---	Other information: ---	

Chemical Name	Propan-2-ol	Content %:20 - 30
WEL-TWA: 400 ppm (999 mg/m3)	WEL-STEL: 500 ppm (1250 mg/m3)	---
BMGV: ---	Other information: ---	

Chemical Name	Propan-2-ol	Content %:20 - 30
WEL-TWA: 400 ppm (999 mg/m3)	WEL-STEL: 500 ppm (1250 mg/m3)	---
BMGV: ---	Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

OELV-8h = Occupational Exposure Limit Value (8-hour reference period) | OELV-15min = Occupational Exposure Limit Value (15-minute reference period) | BLV = Biological limit value | Other information: C1, C2 = carcinogenic substance, Cat. 1 or 2. Mut 1, 2 = mutagenic substance, Cat. 1 or 2. Repro 1, 2 = Substances known to be toxic for reproduction, Cat. 1 or 2. Sk = can be absorbed through skin. Asphyx = asphyxiant. Sen = Respiratory sensitizer.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

## 8.2 Exposure controls

### 8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Respiratory protection:

Normally not necessary.

If OES or MEL is exceeded.

Gas mask filter A (EN 141)

Protective nitrile gloves (EN 374)

Hand protection:

Protective hand cream recommended.

Solvent resistant protective gloves (EN 374).

Eye protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection:

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.2 Environmental exposure controls

n.av.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Aerosol
Propellant gas:	
Carbon dioxide	
Colour:	Colourless
Odour:	Mild
Boiling point/boiling range (°C):	63
Melting point/melting range (°C):	n.av.
Flash point (°C):	-25, Active substance
Flammability (solid, gas):	Yes
Ignition temperature:	220°C
Minimum limit of explosion:	0,8 Vol%
Maximum limit of explosion:	15 Vol%
Product is not explosive.	
When using:	development of explosive vapour/air mixture possible.
Vapour pressure:	5.500mbar/20°C, 8.000 mbar/50°C
Density (g/ml):	0,71
Water solubility:	Insoluble

## 10. STABILITY AND REACTIVITY

### Conditions to avoid

See point 7

Pressure increase will result in danger of bursting.

Pressurized container:

protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

### Materials to avoid

See point 7

Avoid contact with oxidizing agents.

Avoid contact with strong acids.

Avoid contact with strong alkalis.

### Hazardous decomposition products

See point 5.3

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):

n.av.

Inhalation, LC50 rat inhal.(mg/l/4h):

k.D.v., See point 15.

Skin contact, LD50 rat dermal (mg/kg):

k.D.v., Irritant

Eye contact:

Irritant

### Delayed and chronic effects

Sensitization:

n.c.

Carcinogenicity:

n.c.

Mutagenicity:

n.c.

Reproductive toxicity:

n.c.

Narcosis:

n.c.

### Further information

Classification according to calculation procedure.

The following may occur:

With long-term contact:

Irritation of the eyes

Irritation of the respiratory tract

## 12. ECOLOGICAL INFORMATION

Water hazard class (Germany):

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Self classification:	Yes (VwVwS)
Persistence and degradability:	n.av.
Behaviour in sewage plants:	
According to the recipe, contains no AOX.	
Aquatic toxicity:	n.av.
Ecological toxicity:	n.av.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

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

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

#### 13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

15 01 04 metallic packaging

### 14. TRANSPORT INFORMATION

#### General statements

UN-Number: 1950

#### Road/Rail-transport (ADR/RID)

Class/packing group: 2/-

UN 1950 AEROSOLS

Classification code: 5F

LQ: 2

#### Transport by sea

IMDG-code: 2.1/- (class/packing group)

EmS: F-D, S-U

Marine Pollutant: n.a.

AEROSOLS

#### Transport by air

IATA: 2.1/-/ (class/secondary danger/packing group)

Aerosols, flammable

#### Additional information:

Danger code and packing code on request.

### 15. REGULATORY INFORMATION

#### Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)



Symbols: F/Xi/N

Indications of danger:

Highly flammable

Irritant

Dangerous for the environment

R-phrases:

11 Highly flammable.

36/38 Irritating to eyes and skin.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

67 Vapours may cause drowsiness and dizziness.

S-phrases:

23.c Do not breathe spray.

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24/25 Avoid contact with skin and eyes.  
29/35 Do not empty into drains; dispose of this material and its container in a safe way.  
51 Use only in well-ventilated areas.  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Additions:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Keep away from sources of ignition - No smoking.

Keep out of the reach of children.

Observe restrictions: Yes

Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC

VOC-CH 100%

## 16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany):

2 B

Revised points:

1 - 16 (REACH)

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 3).

11 Highly flammable.

38 Irritating to skin.

51 Toxic to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

65 Also harmful: may cause lung damage if swallowed.

67 Vapours may cause drowsiness and dizziness.

36 Irritating to eyes.

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## Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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