

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

hebrochemie



Impulse für Mensch und Umwelt

## F509-AE4 hebro®cut 2000

Version: 2.0

Revision Date 22.05.2015

Print Date 23.05.2015

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

#### 1.1 Product identifier

Trade name : F509-AE4 hebro®cut 2000

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

Use of the Sub-  
stance/Mixture : Cutting fluid

#### 1.3 Details of the supplier of the safety data sheet

Company : hebro chemie- ZN der Rockwood Specialties Group  
GmbH  
Rostocker Str. 40  
41199 Mönchengladbach

Contact person : Wolfgang Schaffers  
Telephone : +49 (0) 2166 6009-0  
Telefax : +49 (0) 2166 6009-99

Contact person product safety : Abteilung Produktsicherheit  
Telephone : +49(0)2166 6009-176  
E-mail address : wolfgang.schaffers@chemetall.com

#### 1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:  
+49 (0) 361 730 730

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol.
	H229: Pressurised container: May burst if heated.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

##### Classification (67/548/EEC, 1999/45/EC)

	R66: Repeated exposure may cause skin dryness or cracking.
Dangerous for the environment	R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H222  
H229  
H412

Extremely flammable aerosol.  
Pressurised container: May burst if heated.  
Harmful to aquatic life with long lasting effects.

: EUH066

Repeated exposure may cause skin dryness or cracking.

Precautionary statements

: P102  
**Prevention:**  
P260  
P210  
  
P251  
P211  
  
**Storage:**  
P410 + P412  
  
**Disposal:**  
P501

Keep out of reach of children.  
  
Do not breathe spray.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not pierce or burn, even after use.  
Do not spray on an open flame or other ignition source.  
  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
  
Dispose of contents/ container to an approved waste disposal plant.

#### Labelling according to EC Directives (1999/45/EC)

R-phrases(s)

: R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66

Repeated exposure may cause skin dryness or cracking.

S-phrases(s)

: S 9  
S23  
S36  
S60

Keep container in a well-ventilated place.  
Do not breathe spray.  
Wear suitable protective clothing.  
This material and its container must be

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disposed of as hazardous waste.

Special labelling of certain mixtures : Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.  
Do not pierce or burn, even after use.

Sensitising components : Sulfonic acids, petroleum, calcium salts  
May produce an allergic reaction.

### 2.3 Other hazards

The information required is contained in this Material Safety Data Sheet.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical nature : Preparation of mineral oil and additives

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	90622-58-5 01-2119472146-39	Xn; R65  R66  N; R53	Flam. Liq. 3; H226  Asp. Tox. 1; H304  Aquatic Chronic 4; H413	>= 25 - < 50
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	920-901-0 01-2119456810-40	Xn; R65  R66	Asp. Tox. 1; H304	>= 2.5 - < 10
Hydrocarbons, C11 - C14, isoalkanes, cyclics, < 2 % aromatics	90622-58-5 927-285-2 01-2119480162-45	Xn; R65  R66	Asp. Tox. 1; H304	>= 2.5 - < 10

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DO NOT USE - USE CM126019827 - O,O,O-tris(2(or 4)-C9- 10-isoalkylphenyl) phosphorothioate	406-940-1	N; R51/53	Aquatic Chronic 2; H411	$\geq 2.5 - < 10$
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6 271-529-4	Xi; R36	Eye Irrit. 2; H319	$\geq 1 - < 2.5$
Sulfonic acids, petrole- um, calcium salts	61789-86-4 263-093-9 01-2119488992-18	R43	Skin Sens. 1B; H317	$\geq 0.1 - < 1$

### Substances with a workplace exposure limit :

Carbon dioxide	124-38-9 204-696-9		Press. Gas H281	$\geq 2.5 - < 10$
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For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

For the full text of the Notas mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Call a physician if symptoms occur.
- If inhaled : Provide fresh air.  
Keep patient warm and at rest.  
If symptoms persist, call a physician.
- In case of skin contact : Take off immediately all contaminated clothing.  
Wash skin thoroughly with soap and water or use recognized skin cleanser.  
Do NOT use solvents or thinners.
- In case of eye contact : Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.  
If eye irritation persists, consult a specialist.
- If swallowed : Call a physician immediately.  
Keep at rest.  
Do NOT induce vomiting.

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

Symptoms : No information available.

Risks : No information available.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Combustion may cause:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Provide sufficient air exchange and/or exhaust in work rooms.  
Remove all sources of ignition.  
Do not breathe vapour.  
Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

### 6.3 Methods and materials for containment and cleaning up

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Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See chapter 8 and 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist.  
When using do not eat, drink or smoke.  
For personal protection see section 8.  
Take precautionary measures against static discharges.  
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 away from children.

Advice on protection against fire and explosion : Vapours are heavier than air and may spread along floors.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.  
Follow the water regulations.

Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place.  
Keep away from sources of ignition - No smoking.  
Keep away from heat.

Advice on common storage : Incompatible with oxidizing agents.

### 7.3 Specific end use(s)

Specific use(s) : Cutting fluid

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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Components	CAS-No.	Value	Control parameters	Update	Basis
Carbon dioxide	124-38-9	TWA	5,000 ppm 9,000 mg/m <sup>3</sup>	2009-12-19	2006/15/EC
Further information	:	Indicative			
	124-38-9	TWA	5,000 ppm 9,150 mg/m <sup>3</sup>	2005-04-06	GB EH40
	124-38-9	STEL	15,000 ppm 27,400 mg/m <sup>3</sup>	2005-04-06	GB EH40

### 8.2 Exposure controls

#### Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

#### Personal protective equipment

- Respiratory protection : Do not breathe gas/fumes/vapour/spray.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
- Hand protection : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
- Eye protection : Safety glasses with side-shields
- Skin and body protection : protective suit
- Protective measures : Handle in accordance with good industrial hygiene and safety practice.  
Follow the skin protection plan.

#### Environmental exposure controls

- General advice : Do not flush into surface water or sanitary sewer system.  
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: aerosol
Colour	: brown
Odour	: characteristic
Flash point	: > 61 °C
Ignition temperature	: 265 °C
Lower explosion limit	: 0.60 %(V)
Upper explosion limit	: 6.50 %(V)
pH	: Not applicable
Boiling point/boiling range	: Method: DIN 51751
Vapour pressure	: 5,750 hPa at 20 °C
Density	: 0.88 g/cm <sup>3</sup> at 20 °C Method: DIN 51757
Water solubility	: insoluble
Viscosity, kinematic	: 120 mm <sup>2</sup> /s at 40 °C

#### 9.2 Other information

Explosivity	: In use, may form flammable/explosive vapour-air mixture.
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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No hazards to be specially mentioned.

#### 10.2 Chemical stability

The product is chemically stable.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

#### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

#### 10.6 Hazardous decomposition products

Risk of decomposition. : In case of fire hazardous decomposition products may be produced such as:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Smoke

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Acute oral toxicity  
Carbon dioxide : No data available

##### Skin corrosion/irritation

Skin irritation : Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin resulting in desiccation of the skin.  
May cause eye and skin irritation.

##### Serious eye damage/eye irritation

Eye irritation : The liquid splashed in the eyes may cause irritation and reversible damage.

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### Respiratory or skin sensitisation

Sensitisation : This information is not available.

### Carcinogenicity

Remarks : Not classifiable as a human carcinogen.

Further information : Health injuries are not known or expected under normal use.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish : No data available

Toxicity to fish  
Carbon dioxide : No data available

### 12.2 Persistence and degradability

Biodegradability : No data available

### 12.3 Bioaccumulative potential

Bioaccumulation : No data available

### 12.4 Mobility in soil

Mobility : No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

Additional ecological information : Do not flush into surface water or sanitary sewer system.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- |                        |   |
|------------------------|---|
| Product                | : Dispose of in accordance with local regulations.<br>Do not let product enter drains.<br>Do not dispose of with domestic refuse.                             |
| Packaging              | : The hazard and precautionary statements displayed on the label also apply to any residues left in the container.<br>Do not dispose of with domestic refuse. |
| Contaminated packaging | : Dispose of in accordance with local regulations.  |
| Waste Code             | : 160504 gases in pressure containers (including halons) containing dangerous substances  |

### SECTION 14: Transport information

#### ADR

- |                             |            |
|-----------------------------|------------|
| UN number                   | : 1950     |
| UN proper shipping name     | : AEROSOLS |
| Transport hazard class(es)  | : 2        |
| Classification Code         | : 5F       |
| Limited Quantity (LQ) Inner | : 1.00 L   |
| Packaging                   |            |
| Maximum quantity            | : 30.00 KG |
| Labels                      | : 2.1      |
| Tunnel restriction code     | : (D)      |
| Environmentally hazardous   | : no       |

#### IATA

- |                          |                       |
|--------------------------|-----------------------|
| UN number                | : 1950                |
| Description of the goods | : Aerosols, flammable |
| Class                    | : 2.1                 |
| Labels                   | : 2.1                 |

#### IATA\_C

- |                                      |             |
|--------------------------------------|-------------|
| Packing instruction (cargo aircraft) | : 203       |
| Packing instruction (LQ)             | : Y203      |
| Maximum quantity                     | : 150.00 KG |
| Environmentally hazardous            | : no        |

#### IATA\_P

- |  |       |
|--|-------|
| Packing instruction (passenger aircraft) | : 203 |
|--|-------|

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Packing instruction (LQ) : Y203  
Maximum quantity : 75.00 KG  
Environmentally hazardous : no

### IMDG

UN number : 1950  
Description of the goods : AEROSOLS  
Class : 2.1  
Labels : 2.1  
EmS Number 1 : F-D  
EmS Number 2 : S-U  
Marine pollutant : no

Shaded from sources of heat.

"IMDG-Code segregation group not applicable".

Shaded from sources of heat.

"IMDG-Code segregation group not applicable".

### RID

UN number : 1950  
Description of the goods : AEROSOLS  
Transport hazard class(es) : 2  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1  
Limited Quantity (LQ) Inner : 1.00 L  
Packaging :  
Maximum quantity : 30.00 KG

Environmentally hazardous : no

## SECTION 15: Regulatory information

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

Other regulations : The product is classified and labelled in accordance with EC directives or respective national laws.  
Regional or national implementations of GHS may not implement all hazard classes and categories.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

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### SECTION 16: Other information

#### Full text of R-phrases referred to under sections 2 and 3

R36	Irritating to eyes.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

#### Full text of H-Statements referred to under sections 2 and 3.

EUH066	Repeated exposure may cause skin dryness or cracking.
H222	Extremely flammable aerosol.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H281	Contains refrigerated gas; may cause cryogenic burns or injury.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

#### Full text of Notas referred to under section 3

#### Further information

The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.