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

### **1.1 Product identifier**

Trade name : XF127-B21 hebro@lub 950

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

Use of the Sub- : High speed cooling lubricant for metalworking  
stance/Mixture

### **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  
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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

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## **SECTION 2: Hazards identification**

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

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

Eye irritation, Category 2 H319: Causes serious eye irritation.

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

### **2.2 Label elements**

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

**Prevention:**

P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Preparation based on mineral oil, ester oils, inhibitors as well as emulsifiers

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
distillates (petroleum), heavy hydrocracked	64741-76-0 265-077-7 01-2119486951-26	Asp. Tox. 1; H304 Note L	>= 25 - < 50
Polysulfides, di-tert-dodecyl	68425-15-0 270-335-7 01-2119540516-41	Aquatic Chronic 4; H413	>= 2.5 - < 10
Alcohols, C16-18 and C18-unsatd., ethoxylated	68920-66-1 500-236-9	Skin Irrit. 2; H315 Aquatic Chronic 2; H411	>= 5 - < 10
(Ethylenedioxy)dimethanol	3586-55-8 222-720-6 01-2120733841-56	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318	>= 1 - < 2.5

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : No special precautions required.  
Call a physician if symptoms occur.

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- If inhaled : Provide fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Take off immediately all contaminated clothing.  
Wash off immediately with soap and plenty of water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Call a physician immediately.  
Keep at rest.  
Do NOT induce vomiting.  
Aspiration hazard.

#### **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.
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### **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  
Nitrogen oxides (NO<sub>x</sub>)

#### **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.

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## **SECTION 6: Accidental release measures**

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

Personal precautions : Avoid contact with skin, eyes and clothing.  
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 material for containment and cleaning up**

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

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## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Advice on safe handling : Avoid contact with skin and eyes.  
Ensure adequate ventilation.  
When using do not eat, drink or smoke.  
For personal protection see section 8.

Advice on protection against fire and explosion : No special protective measures against fire required.

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

Requirements for storage areas and containers : Follow the water regulations. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep only in the original container in a cool, well-ventilated place.

Further information on storage conditions : Keep away from heat. Keep at temperatures between 5°C and 40°C.

Advice on common storage : Incompatible with oxidizing agents.

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

Specific use(s) : High speed cooling lubricant for metalworking

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	112-34-5	TWA	10 ppm 67.5 mg/m <sup>3</sup>	2006/15/EC
Further information	Indicative			
		STEL	15 ppm 101.2 mg/m <sup>3</sup>	2006/15/EC
Further information	Indicative			
		TWA	10 ppm 67.5 mg/m <sup>3</sup>	GB EH40
		STEL	15 ppm 101.2 mg/m <sup>3</sup>	GB EH40

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Polysulfides, di-tert-dodecyl	Workers	Inhalation	Long-term systemic effects	23.5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	33.3 mg/kg bw/day

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Polysulfides, di-tert-dodecyl	Behaviour in waste water treatment plants	1000 mg/l
	Oral	66.7 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

- Eye protection : Safety glasses with side-shields conforming to EN166
- Hand protection  
 Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
- Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.
- Skin and body protection : protective suit
- Respiratory protection : not required under normal use  
 When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
 Do not breathe gas/fumes/vapour/spray.

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Protective measures : Handle in accordance with good industrial hygiene and safety practice.  
Follow the skin protection plan.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : yellow

Odour : characteristic

Odour Threshold : No data available

pH : 9.1 (20 °C)  
Concentration: 50 g/l

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : > 100 °C

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : 0.98 g/cm<sup>3</sup> (20 °C)  
Method: DIN 51757

Solubility(ies)  
Water solubility : 300 g/l

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

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Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: ca. 50 mm <sup>2</sup> /s (40 °C)
Flow time	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

## 9.2 Other information

Other physico-chemical properties: This information is not available/not determined.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 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 : Strong acids and oxidizing agents

### 10.6 Hazardous decomposition products

In case of fire hazardous decomposition products may be produced such as:

Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Smoke  
Nitrogen oxides (NO<sub>x</sub>)

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

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### **Acute toxicity**

#### **Components:**

##### **Alcohols, C16-18 and C18-unsatd., ethoxylated:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

### **Skin corrosion/irritation**

#### **Product:**

Remarks: 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.

### **Skin corrosion/irritation**

#### **Components:**

##### **Alcohols, C16-18 and C18-unsatd., ethoxylated:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Remarks: Causes skin irritation.

### **Serious eye damage/eye irritation**

#### **Product:**

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

### **Serious eye damage/eye irritation**

#### **Components:**

##### **Alcohols, C16-18 and C18-unsatd., ethoxylated:**

Species: Rabbit  
Method: OECD Test Guideline 405  
Remarks: No eye irritation

### **Respiratory or skin sensitisation**

#### **Product:**

Remarks: No sensitising effects are known.

### **Germ cell mutagenicity**

#### **Product:**

Based on available data, the classification criteria are not met.

### **Germ cell mutagenicity**

#### **Components:**

##### **Polysulfides, di-tert-dodecyl:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Species: Human lymphocytes  
Result: negative



### **Carcinogenicity**

**Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

**Product:**

Based on available data, the classification criteria are not met.

#### **STOT - single exposure**

**Product:**

Based on available data, the classification criteria are not met.

#### **STOT - repeated exposure**

**Product:**

Based on available data, the classification criteria are not met.

### **Aspiration toxicity**

**Product:**

Based on available data, the classification criteria are not met.

### **Further information**

**Product:**

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

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

**Product:**

Ecotoxicology studies for the product are not available.

**Components:**

**Polysulfides, di-tert-dodecyl:**

Toxicity to fish : LC50 (Brachydanio rerio (Zebra danio)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : NOEC (Daphnia (water flea)): < 0.1 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): < 0.08 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

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Toxicity to microorganisms : (Pseudomonas putida): 10,000 mg/l  
Exposure time: 16 h  
Test Type: Growth inhibition

**Alcohols, C16-18 and C18-unsatd., ethoxylated:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 - 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to microorganisms : EC50 : > 10,000 mg/l  
Method: OECD Test Guideline 209

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Remarks: No data available

**Components:**

**Alcohols, C16-18 and C18-unsatd., ethoxylated:**

Biodegradability : Biodegradation: > 70 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
Remarks: Readily biodegradable  
This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: No data available

**Components:**

**Polysulfides, di-tert-dodecyl:**

Partition coefficient: n-octanol/water : log Pow: > 6.2 (22 °C)  
Method: OECD Test Guideline 117

**12.4 Mobility in soil**

**Product:**

Mobility : Remarks: No data available

**Components:**

**Polysulfides, di-tert-dodecyl:**

Distribution among environmental compartments : Medium: Soil  
Remarks: immobile

## 12.5 Results of PBT and vPvB assessment

**Product:**

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

**Product:**

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.  
Do not let product enter drains.  
Do not dispose of with domestic refuse.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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## SECTION 14: Transport information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Refer to protective measures listed in sections 7 and 8.

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

Not applicable for product as supplied.

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## 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.

## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.  
H411 : Toxic to aquatic life with long lasting effects.  
H413 : May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Chronic : Chronic aquatic toxicity  
Asp. Tox. : Aspiration hazard  
Eye Dam. : Serious eye damage  
Skin Irrit. : Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation,

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tion, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Other 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.

GB / EN