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

### **1.1 Product identifier**

Trade name : G004-B21 hebro®protect 7-3

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

Use of the Sub-  
stance/Mixture : Corrosion inhibitor

### **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 : Zentrale hebro chemie  
Telephone : +49 (0) 2166 6009-0  
Telefax : +49 (0) 2166 6009-99

Contact person product safety : Abteilung Produktsicherheit  
Telephone : +49(0)2166 6009-311  
E-mail address : msds.de@hebro-chemie.de

### **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)**

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.




### **2.2 Label elements**

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

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- Hazard pictograms :   
- Signal word : Danger
- Hazard statements : H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.
- Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.
- Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing mist or vapours.  
**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P310 Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

#### Additional Labelling

EUH208 Contains Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salts, Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts. May produce an allergic reaction.

#### 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 containing mineral oil with specific components.

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not Assigned 927-241-2 01-2119471843-32	Flam. Liq. 3; H226 STOT SE 3; H336 Asp. Tox. 1; H304	>= 80 - <= 100

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		Aquatic Chronic 3; H412	
Hydrocarbons, C11 - C12, isoalkanes, <2 % aromatics	Not Assigned 918-167-1 01-2119472146-39	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 4; H413	>= 10 - < 25
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0 274-263-7 01-2119492616-28	Skin Sens. 1B; H317	>= 0.1 - < 1
Sulfonic acids, petroleum, calcium salts	61789-86-4 263-093-9 01-2119488992-18	Skin Sens. 1B; H317	>= 0.1 - < 1
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	68584-23-6 271-529-4 01-2119492627-25	Skin Sens. 1B; H317	>= 0.1 - < 1

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : Provide fresh air.  
 Keep patient warm and at rest.  
 If symptoms persist, call a physician.
- In case of skin contact : Take off all contaminated clothing immediately.  
 After contact with skin, wash immediately with plenty of soap and water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
 Seek medical advice.
- If swallowed : Call a physician immediately.  
 Keep at rest.  
 Do NOT induce vomiting.

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

- Symptoms : Erythema

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

- Treatment : Treat symptomatically.  
 For specialist advice physicians should contact the Poisons Information Service.

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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.  
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.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
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 : Ensure adequate ventilation.  
Do not breathe vapours, aerosols.  
Remove all sources of ignition.

### **6.2 Environmental precautions**

Environmental precautions : Do not empty into drains.  
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, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in 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

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Keep away from open flames, hot surfaces and sources of ignition.  
Take precautionary measures against static discharges.  
Avoid contact with skin and eyes.  
Do not breathe vapours or spray mist.  
When using do not eat, drink or smoke.  
For personal protection see section 8.
- Advice on protection against fire and explosion : Vapours are heavier than air and may spread along floors.  
Vapours may form explosive mixtures with air.

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

- Requirements for storage areas and containers : Follow the water regulations. Keep only in the original container in a cool, well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place. Keep away from heat. Keep away from sources of ignition - No smoking. Keep at temperatures between - 7°C and 40°C.
- Advice on common storage : Incompatible with oxidizing agents.

### 7.3 Specific end use(s)

- Specific use(s) : Corrosion inhibitor

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### 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

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has to be observed.

- Skin and body protection : Protective suit
- Respiratory protection : Use respirator when performing operations involving potential exposure to vapour of the product.  
Recommended Filter type:  
ABEK-filter  
The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Protective measures : 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 : oily
- Colour : beige
- Odour : hydrocarbon-like
- Odour Threshold : No data available
- pH : Not applicable
- Melting point/freezing point : No data available  
: > 136 °C
- Flash point : > 26 °C  
Method: DIN 51755 Part 1
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Upper explosion limit : Upper flammability limit  
6.0 %(V)
- Lower explosion limit : Lower flammability limit  
0.60 %(V)
- Vapour pressure : 5.0 hPa  
Information taken from reference works and the literature.
- Relative vapour density : No data available
- Relative density : No data available
- Density : ca. 0.78 g/cm<sup>3</sup> (20 °C)

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Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	not determined
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	13 mm <sup>2</sup> /s (20 °C)
Flow time	:	No data available
Explosive properties	:	Vapours may form explosive mixture with air.
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 : Product is stable under appropriate usage.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

**Product:**

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

#### Acute toxicity

**Components:**

**Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 4.951 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402

#### Skin corrosion/irritation

**Product:**

Remarks: Repeated exposure may cause skin dryness or cracking.

#### Serious eye damage/eye irritation

**Product:**

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

#### Respiratory or skin sensitisation

**Product:**

Remarks: This information is not available.

#### Germ cell mutagenicity

**Product:**

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

#### Carcinogenicity

**Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### Reproductive toxicity

**Product:**

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



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### **STOT - single exposure**

**Product:**

Remarks: May cause drowsiness or dizziness.

### **STOT - repeated exposure**

**Product:**

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

### **Aspiration toxicity**

**Product:**

May be fatal if swallowed and enters airways.

### **Further information**

**Product:**

Remarks: According to many years of experience, there are no known harmful effects when handled properly.

Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

**Product:**

Ecotoxicology studies for the product are not available.

**Components:**

**Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 10 - < 30 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 22 - < 46 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : IC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000  
mg/l  
Exposure time: 72 h

### **12.2 Persistence and degradability**

**Product:**

Biodegradability : Remarks: No data available

### **12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: No data available

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#### 12.4 Mobility in soil

**Product:**

Mobility : Remarks: No data available

#### 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. Avoid subsoil penetration.

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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 : 14 06 03 : other solvents and solvent mixtures

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### SECTION 14: Transport information

#### 14.1 UN number

ADR : UN 3295  
RID : UN 3295  
IMDG : UN 3295  
IATA : UN 3295

#### 14.2 UN proper shipping name

ADR : HYDROCARBONS, LIQUID, N.O.S.  
RID : HYDROCARBONS, LIQUID, N.O.S.  
IMDG : HYDROCARBONS, LIQUID, N.O.S.  
IATA : Hydrocarbons, liquid, n.o.s.

#### 14.3 Transport hazard class(es)

ADR : 3  
RID : 3

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**IMDG** : 3

**IATA** : 3

#### 14.4 Packing group

##### ADR

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

##### RID

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

##### IMDG

Packing group : III  
Labels : 3  
EmS Code : F-E, S-D  
Remarks : "IMDG-Code segregation group not applicable".

##### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

##### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

#### 14.5 Environmental hazards

##### ADR

Environmentally hazardous : no

##### RID

Environmentally hazardous : no

##### IMDG

Marine pollutant : no

#### 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

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- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable
- 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

- H226 : Flammable liquid and vapour.  
H304 : May be fatal if swallowed and enters airways.  
H317 : May cause an allergic skin reaction.  
H336 : May cause drowsiness or dizziness.  
H412 : Harmful to aquatic life with long lasting effects.  
H413 : May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

- Aquatic Chronic : Long-term (chronic) aquatic hazard  
Asp. Tox. : Aspiration hazard  
Flam. Liq. : Flammable liquids  
Skin Sens. : Skin sensitisation  
STOT SE : Specific target organ toxicity - single exposure

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 Develop-

ment; 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, 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; SVHC - Substance of Very High Concern; 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.

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