

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

**I265-W21 hebro®prenol SE 8000**

Version: 2.7

Revision Date: 04.09.2024

Print Date: 05.09.2024

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

### 1.1 Product identifier

Trade name : I265-W21 hebro®prenol SE 8000

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

Use of the Sub- : Flocculating agent  
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 : 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

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Serious eye damage, Category 1 H318: Causes serious eye damage.

### 2.2 Label elements

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

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements : **Prevention:**

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P280 Wear eye protection/ face protection.

## Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

## Hazardous components which must be listed on the label:

Aluminium sulphate tetradecahydrate

## 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.

Ecological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Toxicological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Aqueous preparation of aluminium compounds and polymers

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1,2-Ethanediamine, polymer with (chloromethyl)oxirane and N-methylmethanamine (MW: 90 000 - 150 000)	42751-79-1	Aquatic Chronic 3; H412	>= 2.5 - < 10
Aluminium sulphate tetradecahydrate	16828-12-9 233-135-0 01-2119531538-36	Eye Dam. 1; H318	>= 3 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : First aider needs to protect himself.  
Move out of dangerous area.

If inhaled : Move to fresh air.  
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 water.

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If symptoms persist, call a physician.

- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Call a physician immediately.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.  
Call a physician immediately.

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

- Risks : Causes serious eye damage.

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

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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 mist
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during fire-fighting : The product is not flammable.

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Specific extinguishing methods : Use water spray to cool unopened containers.
- Further information : 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 : Wear suitable protective clothing, gloves and eye/face protection.  
Avoid contact with skin, eyes and clothing.

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## 6.2 Environmental precautions

Environmental precautions : 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 up mechanically and dispose according to local regulations.  
Suitable material for dilution or neutralization

## 6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Have eye wash bottle or eye rinse ready at the work place.  
Avoid contact with skin and eyes.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep only in the original container. Plastic container Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Protect from frost.

Advice on common storage : Incompatible with bases.

Recommended storage temperature : 5 - 40 °C

## 7.3 Specific end use(s)

Specific use(s) : Flocculating agent

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

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## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection	: Safety glasses with side-shields conforming to EN166 Face-shield
Hand protection	
Material	: Protective gloves complying with EN 374.
Break through time	: > 60 min
Protective index	: Class 3
Material	: Nitrile rubber
Glove thickness	: 0.4 mm
Material	: butyl-rubber
Glove thickness	: 0.5 mm
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	: Chemical resistant protective clothing according to DIN EN 13034 (Type 6) Long sleeved clothing Chemical resistant apron
Respiratory protection	: If product forms vapours or aerosols wear breathing protection.
Filter type	: Combined particulates, acidic gas/vapour and organic vapour type (AE-P)
Protective measures	: When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Follow the skin protection plan.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: yellow
Odour	: characteristic
Melting point/freezing point	: not determined
Boiling point/boiling range	: Method: DIN 51751

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Upper explosion limit / Upper  
flammability limit : not determined

Lower explosion limit / Lower  
flammability limit : not determined

Flash point : > 100 °C

Auto-ignition temperature : not determined

pH : 3.3 (20 °C)

Viscosity  
Viscosity, kinematic : similar to water

Solubility(ies)  
Water solubility : 1,000 g/l completely soluble

Partition coefficient: n-  
octanol/water : Not applicable

Vapour pressure : not determined

Density : 1.05 g/cm<sup>3</sup> (20 °C)  
Method: DIN 51757

Relative vapour density : not determined

## 9.2 Other information

Explosives : No data available

Substances and mixtures,  
which in contact with water,  
emit flammable gases : No data available

Metal corrosion rate : Not corrosive to metals

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 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 : Bases

### 10.6 Hazardous decomposition products

No data available

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified due to lack of data.

#### Components:

**1,2-Ethanediamine, polymer with (chloromethyl)oxirane and N-methylmethanamine (MW: 90 000 - 150 000):**

Acute oral toxicity : LD50 (Rat): 6,160 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg

#### **Aluminium sulphate tetradecahydrate:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

#### **Skin corrosion/irritation**

Not classified due to lack of data.

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

Causes serious eye damage.

#### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified due to lack of data.

#### **Respiratory sensitisation**

Not classified due to lack of data.

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## **Germ cell mutagenicity**

Not classified due to lack of data.

## **Carcinogenicity**

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

### **Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

## **Reproductive toxicity**

Not classified due to lack of data.

## **STOT - single exposure**

Not classified due to lack of data.

## **STOT - repeated exposure**

Not classified due to lack of data.

## **Aspiration toxicity**

Not classified due to lack of data.

## **11.2 Information on other hazards**

### **Endocrine disrupting properties**

#### **Product:**

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

### **Further information**

#### **Product:**

Remarks : If swallowed, severe burns in the oral cavity and throat as well as danger of perforation of the digestive tract and stomach.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Components:**

**1,2-Ethanediamine, polymer with (chloromethyl)oxirane and N-methylmethanamine (MW: 90 000 - 150 000):**

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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : IC50 (Algae): > 10 - 100 mg/l  
Exposure time: 72 h



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Method: OECD Test Guideline 201

## **Aluminium sulphate tetradecahydrate:**

Toxicity to fish : LC50 (Fish): > 1,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 160 mg/l  
aquatic invertebrates  
Exposure time: 48 h  
Method: OECD Test Guideline 202

## **12.2 Persistence and degradability**

### **Product:**

Biodegradability : Remarks: No data available

### **Components:**

**1,2-Ethanediamine, polymer with (chloromethyl)oxirane and N-methylmethanamine (MW: 90 000 - 150 000):**

Biodegradability : Result: Not rapidly biodegradable

## **12.3 Bioaccumulative potential**

### **Product:**

Bioaccumulation : Remarks: No data available

## **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 Endocrine disrupting properties**

### **Product:**

Assessment : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

## **12.7 Other adverse effects**

### **Product:**

Additional ecological infor- : 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. |
| 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 or ID number

- |        |   |                                   |
|--------|---|-----------------------------------|
| ADR    | : | Not regulated as a dangerous good |
| RID    | : | Not regulated as a dangerous good |
| IMDG   | : | Not regulated as a dangerous good |
| IATA_P | : | Not regulated as a dangerous good |

### 14.2 UN proper shipping name

- |        |   |                                   |
|--------|---|-----------------------------------|
| ADR    | : | Not regulated as a dangerous good |
| RID    | : | Not regulated as a dangerous good |
| IMDG   | : | Not regulated as a dangerous good |
| IATA_P | : | Not regulated as a dangerous good |

### 14.3 Transport hazard class(es)

- |        |   |                                   |
|--------|---|-----------------------------------|
| ADR    | : | Not regulated as a dangerous good |
| RID    | : | Not regulated as a dangerous good |
| IMDG   | : | Not regulated as a dangerous good |
| IATA_P | : | Not regulated as a dangerous good |

### 14.4 Packing group

- |                    |   |                                   |
|--------------------|---|-----------------------------------|
| ADR                | : | Not regulated as a dangerous good |
| RID                | : | Not regulated as a dangerous good |
| IMDG               | : | Not regulated as a dangerous good |
| IATA (Cargo)       | : | Not regulated as a dangerous good |
| IATA_P (Passenger) | : | Not regulated as a dangerous good |

### 14.5 Environmental hazards

Not regulated as a dangerous good

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## 14.6 Special precautions for user

Not applicable

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

## SECTION 16: Other information

### Full text of H-Statements

H318	:	Causes serious eye damage.
H412	:	Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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

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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, 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; TECI - Thailand Existing Chemicals 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.

## Classification of the mixture:

Eye Dam. 1

H318

## Classification procedure:

Calculation method

GB / EN