

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

hebrochemie
GmbH



Impulse für Mensch und Umwelt

I238-W21 hebro®prenol WF 1250

Version: 3.0

Revision Date 05.05.2014

Print Date 06.05.2014

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

1.1 Product identifier

Trade name : I238-W21 hebro®prenol WF 1250

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

Use of the Sub-
stance/Mixture : Flocculating agent

1.3 Details of the supplier of the safety data sheet

Company : hebro chemie 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
E-mail address : info-produktsicherheit@gmx.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)

Corrosive to metals, Category 1 H290: May be corrosive to metals.
Eye irritation, Category 2 H319: Causes serious eye irritation.

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

Irritant R36: Irritating to eyes.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



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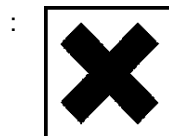
Signal word	:	Danger	
Hazard statements	:	H290 H319	May be corrosive to metals. Causes serious eye irritation.
Precautionary statements	:	Prevention: P264 P280	Wash skin thoroughly after handling. Wear protective gloves/ eye protection/ face protection.
		Response: P305 + P351 + P338	IF IN EYES: Rinse 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.
		Storage: P406	Store in corrosive resistant polyethylene container with a resistant inner liner.

Hazardous components which must be listed on the label:

- Reaction mass of aluminium nitrate and aluminium sulphate

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

Hazard pictograms



Irritant

R-phrases(s)	:	R36	Irritating to eyes.
S-phrases(s)	:	S26 S37/39	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

Hazardous components which must be listed on the label:

- Reaction mass of aluminium nitrate and aluminium sulphate

2.3 Other hazards

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

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SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Chemical nature : Aqueous preparation on the basis of polyaluminium compounds.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Reaction mass of aluminium nitrate and aluminium sulphate	01-2119980602-36	Xi; R41	Met. Corr. 1; H290 Eye Dam. 1; H318	>= 10 - < 25

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

- If inhaled : Provide fresh air.
Keep respiratory tract clear.
- In case of skin contact : Take off all contaminated clothing immediately.
In case of contact, immediately flush skin with soap and plenty of water.
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.
Seek medical advice.
- If swallowed : Keep at rest.
Do NOT induce vomiting.
Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

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Symptoms : Erythema
Blistering
Pain

Risks : corrosive effects

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry powder
Water mist

Unsuitable extinguishing media : none

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

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

Further information : The product itself does not burn.
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 : Wear suitable protective clothing, gloves and eye/face protection.
Avoid contact with skin, eyes and clothing.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic envi-

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ronment or soil.

6.3 Methods and materials 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.
Neutralize with lime milk or soda and flush with plenty of water.
Contaminated surfaces will be extremely slippery.

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 : Product is used in dilutions with water
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.

7.3 Specific end use(s)

Specific use(s) : Flocculating agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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Contains no substances with occupational exposure limit values.

DNEL/DMEL

Reaction mass of aluminium nitrate and aluminium sulphate : End Use: DNEL, Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 28.6 mg/m³

End Use: DNEL, Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 4.06 mg/kg bw/day

8.2 Exposure controls

Personal protective equipment

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 : Follow the skin protection plan.

Environmental exposure controls

General advice : Inform the relevant authorities if it enters sewers, aquatic environment or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid
Colour : colourless
Odour : characteristic
pH : 2.5
at
20 °C
(undiluted)

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Density : 1.27 g/cm³
at 20 °C
Method: DIN 51757

Water solubility : completely soluble

9.2 Other information

Explosivity : No data available

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 decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from frost.
Product is stable under appropriate usage.

10.5 Incompatible materials

Materials to avoid : Bases

10.6 Hazardous decomposition products

Risk of decomposition. : No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Reaction mass of aluminium nitrate and aluminium sulphate : LD50: > 2,000 mg/kg
Species: rat
Test substance: Read-across (Analogy)

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Acute inhalation toxicity

Reaction mass of aluminium nitrate and aluminium sulphate : LC50: > 5 mg/l
Exposure time: 4 h
Species: rat
Test substance: Read-across (Analogy)

Acute dermal toxicity

Reaction mass of aluminium nitrate and aluminium sulphate : LD50: > 2,000 mg/kg
Species: rat
Test substance: Read-across (Analogy)

Skin corrosion/irritation

Skin irritation : Irritating to skin and mucous membranes

Serious eye damage/eye irritation

Eye irritation : May cause irreversible eye damage.

Respiratory or skin sensitisation

Sensitisation : This information is not available.

Carcinogenicity

Remarks : Not classifiable as a human carcinogen.

Further information

: 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

Toxicity to fish : No data available

Toxicity to fish

Reaction mass of aluminium nitrate and aluminium sulphate : LC50: 104 mg/l
Exposure time: 96 h
Species: Brachydanio rerio (Zebra danio)
Test substance: Read-across (Analogy)

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Toxicity to daphnia and other aquatic invertebrates
Reaction mass of aluminium nitrate and aluminium sulphate : NOEC: > 160 mg/l
Exposure time: 48 h
Species: Daphnia
Test substance: Read-across (Analogy)

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

No data available

12.6 Other adverse effects

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

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.

Packaging : Do not dispose of with domestic refuse.
The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : 070701 aqueous washing liquids and mother liquors

SECTION 14: Transport information

ADR

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UN number : 3264
UN proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Reaction mass of aluminium nitrate and aluminium sulphate
Transport hazard class(es) : 8
Packing group : III
Classification Code : C1
Hazard Identification Number : 80
Limited Quantity (LQ) Inner Packaging : 5.00 L
Maximum quantity : 30.00 KG
Labels : 8
Tunnel restriction code : (E)
Environmentally hazardous : no

IATA

UN number : 3264
Description of the goods : Corrosive liquid, acidic, inorganic, n.o.s. Reaction mass of aluminium nitrate and aluminium sulphate
Class : 8
Packing group : III
Labels : 8

IATA_C

Packing instruction (cargo aircraft) : 856
Packing instruction (LQ) : Y841
Maximum quantity : 60.00 L
Environmentally hazardous : no

IATA_P

Packing instruction (passenger aircraft) : 852
Packing instruction (LQ) : Y841
Maximum quantity : 5.00 L
Environmentally hazardous : no

IMDG

UN number : 3264
Description of the goods : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Reaction mass of aluminium nitrate and aluminium sulphate
Class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : no

Acids
Clear of living quarters.

Acids
Clear of living quarters.

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RID

UN number : 3264
Description of the goods : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Reaction
mass of aluminium nitrate and aluminium sulphate
Transport hazard class(es) : 8
Packing group : III
Classification Code : C1
Hazard Identification Number : 80
Labels : 8
Limited Quantity (LQ) Inner : 5.00 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.

SECTION 16: Other information

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

R36 Irritating to eyes.
R41 Risk of serious damage to eyes.

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

H290 May be corrosive to metals.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

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

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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.