

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

hebrochemie



Impulse für Mensch und Umwelt

XI023-K21 hebro®biofresh

Version: 2.2

Revision Date 30.11.2015

Print Date 01.12.2015

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

1.1 Product identifier

Trade name : XI023-K21 hebro®biofresh

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

Use of the Sub-
stance/Mixture : Odour masker for waste water

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)

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



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Signal word	:	Warning	
Hazard statements	:	H290 H319	May be corrosive to metals. Causes serious eye irritation.
Precautionary statements	:	Prevention: P264 P280 Response: P305 + P351 + P338 P337 + P313 Storage: P406	Wash hands thoroughly after handling. Wear eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. 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

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 : Aqueous preparation on the basis of polyaluminium compounds.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Reaction mass of aluminium nitrate and aluminium sulphate	01-2119980602-36	Met. Corr. 1; H290 Eye Dam. 1; H318	>= 25 - < 50

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

SECTION 4: First aid measures

4.1 Description of first aid measures

- If inhaled : No information available.
- In case of skin contact : After contact with skin, wash immediately with plenty of water. 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. If eye irritation persists, consult a specialist.
- If swallowed : Call a physician immediately. Keep patient warm and at rest. Immediately give large quantities of water to drink. Prevent vomiting if possible.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.
- Risks : Causes serious eye irritation.

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 : Alcohol-resistant foam
Carbon dioxide (CO₂)
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 : Combustion may cause:
Carbon dioxide (CO₂)
Carbon monoxide

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5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.
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 : Handle in accordance with good industrial hygiene and safety practice.

6.2 Environmental precautions

- Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic environment 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 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 : Avoid contact with skin and eyes.
Ensure adequate ventilation.
When using do not eat, drink or smoke.
For personal protection see section 8.

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 at temperature not exceeding 50°C.

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Further information on storage conditions : Keep away from heat.
Keep away from food, drink and animal feedingstuffs.
Keep at temperatures between 5°C and 45°C.

7.3 Specific end use(s)

Specific use(s) : Odour masker for waste water

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL/DMEL

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

End Use: Workers DNEL
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

Respiratory protection : Use respirator when performing operations involving potential exposure to vapour of the product.

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 : To protect against splashes from pouring:
Long sleeved clothing

Protective measures : Follow the skin protection plan.

Environmental exposure controls

General advice : Inform the relevant authorities if it enters sewers, aquatic envi-

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ronment or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: blue
Odour	: like lemon
pH	: 2.50 at 20 °C (undiluted)
Density	: 1.27 g/cm ³ 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 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 : None known.

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10.6 Hazardous decomposition products

Risk of decomposition. : No decomposition if stored and applied as directed.
In case of fire hazardous decomposition products may be produced such as:
Carbon dioxide (CO₂)
Carbon monoxide
Smoke

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)

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 : May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Eye irritation : Causes serious eye irritation.

Respiratory or skin sensitisation

Sensitisation : No sensitising effects are known.

Carcinogenicity

Remarks : Not classifiable as a human carcinogen.

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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
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)

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 (water flea)
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

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 : Do not let product enter drains.
Do not dispose of with domestic refuse.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
- Packaging : Do not dispose of with domestic refuse.
- Contaminated packaging : If recycling is not practicable, dispose of in compliance with local regulations.
Since emptied containers retain product residues (vapour and/or liquid) follow all MSDS/label warnings after container is emptied.
- Waste Code : 070701 aqueous washing liquids and mother liquors

SECTION 14: Transport information

ADR

- 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 : 5.00 L
- Packaging
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

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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
Limited Quantity (LQ) Inner : 5.00 L
Packaging :
Marine pollutant : no

Acids
Clear of living quarters.

Acids
Clear of living quarters.

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

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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 when it is used in the specified applications.

SECTION 16: Other information

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 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.

This data sheet contains changes from the previous version in section(s): 14