according to Regulation (EC) No. 1907/2006



Impulse für Mensch und Umwelt

## P088-K21 hebro®flock FL 20

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

1.1 Product identifier

Trade name : P088-K21 hebro®flock FL 20

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

Irritant R41: Risk of serious damage to eyes.

### 2.2 Label elements

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

Hazard pictograms :



Irritant

R-phrase(s) : R41 Risk of serious damage to eyes.

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S-phrase(s) : S26 In case of contact with eyes, rinse immedi-

ately with plenty of water and seek medical

advice.

S28 After contact with skin, wash immediately

with plenty of soap and water.

S37/39 Wear suitable gloves and eye/face protec-

tion.

#### 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 com-

pounds.

#### **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration num- ber	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Aluminum chloride, basic	1327-41-9 215-477-2 01-2119531563-43	Xi; R41	Met. Corr. 1; H290 Eye Dam. 1; H318	>= 25 - < 50

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.

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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 min-

utes, 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

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 fire fighting if

necessary.

Further information : The product itself does not burn.

Use water spray to cool unopened containers.

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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 protec-

tion.

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-

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 regula-

tions.

Neutralize with lime milk or soda and flush with plenty of wa-

ter.

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.

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Further information on stor-

age conditions

: Protect from frost.

Advice on common storage : Incompatible with bases.

7.3 Specific end uses

Specific use(s) : Flocculating agent

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL/DMEL

Aluminum chloride, basic : End Use: DNEL, Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 20.2 mg/m3

#### 8.2 Exposure controls

### Personal protective equipment

Hand protection : Chemical resistant gloves made of butyl rubber or nitrile rub-

ber 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 envi-

ronment or soil.

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

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Colour : yellow

Odour : mild

pH : ca. 1.0

at 20 °C (undiluted)

Boiling point/boiling range : 108 °C

Vapour pressure : 18 hPa

at 20 °C

Density : 1.36 g/cm3

at 20 °C

Method: DIN 51757

Water solubility : soluble

Viscosity, dynamic : 50 - 70 mPa\*s

at 20 °C

9.2 Other information

Explosivity : no explosion risk

## **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.

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## 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**

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

## 12.2 Persistence and degradability

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Biodegradability : no data available

12.3 Bioaccumulative potential

: no data available Bioaccumulation

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 informa: Do not flush into surface water or sanitary sewer system.

tion

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

: Dispose of in accordance with local regulations. **Product** 

Do not let product enter drains.

Do not dispose of with domestic refuse.

: Do not dispose of with domestic refuse. Packaging

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 : 080111 waste paint and varnish containing organic solvents or

other dangerous substances

## **SECTION 14: Transport information**

**ADR** 

**UN** number : 3264

UN proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Alumi-

num-chloride-hydroxide

Transport hazard class(es) : 8 Packing group : 111 Classification Code : C1 Hazard Identification Number : 80 Limited Quantity (LQ) Inner : 5.00 L

Packaging

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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. Aluminum-chloride-

hydroxide

Class : 8
Packing group : III
Labels : 8

IATA\_C

Packing instruction (cargo : 856

aircraft)

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

IATA P

Packing instruction (passen: 852

ger aircraft)

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. Alumi-

num-chloride-hydroxide

Class : 8
Packing group : III
Labels : 8
EmS Number 1 : F-A
EmS Number 2 : S-B
Marine pollutant : no

RID

UN number : 3264

Description of the goods : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. Alumi-

num-chloride-hydroxide

Transport hazard class(es) : 8
Packing group : III
Classification Code : C1
Hazard Identification Number : 80
Labels : 8
Limited Quantity (LQ) Inner : 5.00 L

Doologing

Packaging

Maximum quantity : 30.00 KG

9/10

- EN

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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 imple-

ment 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

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.

#### **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.