

Version: 3.8

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

1.1 Product identifier

Trade name : XP085-S20 hebro®flock 2001

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

Use of the Sub- : Flocculant for treatment of waste water
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)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling

EUH210 Safety data sheet available on request.

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 99.865 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 99.865 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 99.865 %

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 99.865 %

Version: 3.8

Revision Date: 05.01.2023

Print Date: 06.01.2023

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Powdery mixture of metallic salts, adsorbents and polymeric reactants

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Substances with a workplace exposure limit :			
Aluminium sulphate	10043-01-3 233-135-0 01-2119531538-36		>= 25 - < 50
Aluminium sodium dioxide	1302-42-7 215-100-1 01-2119519249-35		>= 10 - < 25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Remove/ Take off immediately all contaminated clothing.
Call a physician if symptoms occur.
- If inhaled : Call a physician immediately.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap and water.
Remove contaminated clothing and shoes.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
- If swallowed : Call a physician immediately.
Keep at rest.
Clean mouth with water and drink afterwards plenty of water.
Prevent vomiting if possible.

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 : The product itself does not burn.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : No information available.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Combustion produces caustic fumes.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : 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 : Handle in accordance with good industrial hygiene and safety practice.
Avoid dust formation.
Do not breathe dust.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Do not let product enter 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 : Use mechanical handling equipment.
Avoid dust formation.
Keep in suitable, closed containers for disposal.

Version: 3.8

Revision Date: 05.01.2023

Print Date: 06.01.2023

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 : Do not breathe dust.
 May be harmful by inhalation, in contact with skin and if swallowed.
 Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No special storage conditions required. Protect from moisture.
 Keep in a dry place. Store in original container.

Advice on common storage : Do not store near acids.

7.3 Specific end use(s)

Specific use(s) : Flocculant for treatment of waste water

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Aluminium sulphate	10043-01-3	TWA	2 mg/m ³ (Aluminium)	GB EH40
	Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
Aluminium sodium dioxide	1302-42-7	TWA	2 mg/m ³ (Aluminium)	GB EH40
	Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Aluminium sulphate	Workers	Inhalation	Long-term systemic effects	3 mg/m ³
	Workers	Inhalation	Long-term local effects	3 mg/m ³

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles
 Eye protection (EN 166)

Version: 3.8

Revision Date: 05.01.2023

Print Date: 06.01.2023

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 has to be observed.
Skin and body protection	:	Work uniform or laboratory coat. Remove and wash contaminated clothing before re-use.
Respiratory protection	:	Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Half mask with a particle filter P2 (EN 143)
Protective measures	:	Avoid dust formation. Do not breathe dust. Follow the skin protection plan.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	solid
Colour	:	white
Odour	:	odourless
	:	not determined
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
pH	:	7.5 (20 °C) Concentration: 50 g/l
Viscosity Viscosity, kinematic	:	Not applicable
Solubility(ies) Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	Not applicable

Version: 3.8

Revision Date: 05.01.2023

Print Date: 06.01.2023

Vapour pressure	:	Not applicable
Density	:	not determined
Bulk density	:	870 kg/m ³
Relative vapour density	:	Not applicable

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	:	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 : Product is stable under appropriate usage.

10.5 Incompatible materials

Materials to avoid : Acids
Ammonium salts
May react strongly with amphoteric metals (aluminium, lead, zinc, ..): forms Hydrogen (Combustible).

10.6 Hazardous decomposition products

Corrosive gases / vapours

SECTION 11: Toxicological information

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

Acute toxicity

Components:

Aluminium sulphate:

Acute oral toxicity : LD50 (Rat, female): > 2,000.0 mg/kg
Method: OECD Test Guideline 401

Version: 3.8

Revision Date: 05.01.2023

Print Date: 06.01.2023

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

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

Skin corrosion/irritation

Product:

Remarks : Causes skin burns.

Components:

Aluminium sulphate:

Species : Rabbit
Exposure time : 4 h
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : Risk of serious damage to eyes.
May cause irreversible eye damage.

Components:

Aluminium sulphate:

Species : Rabbit
Assessment : Risk of serious damage to eyes.
Method : OECD Test Guideline 405

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Assessment : The product causes burns of eyes, skin and mucous membranes.

Components:

Aluminium sulphate:

Species : Mouse
Method : OECD Test Guideline 429
Result : No sensitising effects are known.

Carcinogenicity

Product:

Version: 3.8

Revision Date: 05.01.2023

Print Date: 06.01.2023

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Product:

11.2 Information on other hazards

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

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

No data available

12.7 Other adverse effects

Product:

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

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.

Version: 3.8

Revision Date: 05.01.2023

Print Date: 06.01.2023

- 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.

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 : UN 2812
- IATA : UN 2812

14.2 UN proper shipping name

- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG : SODIUM ALUMINATE, SOLID
- IATA : Sodium aluminate, solid

14.3 Transport hazard class(es)

- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- | | Class | Subsidiary risks |
|------|-------|------------------|
| IMDG | : 8 | |
| IATA | : 8 | |

14.4 Packing group

- ADR : Not regulated as a dangerous good
- RID : Not regulated as a dangerous good
- IMDG
- | | |
|---------------|------------------------------|
| Packing group | : Not assigned by regulation |
| Labels | : 8 |
- IATA (Cargo)**
- | | |
|--------------------------------------|-------------|
| Packing instruction (cargo aircraft) | : 864 |
| Packing instruction (LQ) | : Y845 |
| Packing group | : III |
| Labels | : Corrosive |
- IATA_P (Passenger)**
- | | |
|--|-------------|
| Packing instruction (passenger aircraft) | : 860 |
| Packing instruction (LQ) | : Y845 |
| Packing group | : III |
| Labels | : Corrosive |

14.5 Environmental hazards

Version: 3.8

Revision Date: 05.01.2023

Print Date: 06.01.2023

ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG
Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

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

Other regulations:

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

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 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 - Interna-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

XP085-S20 hebro®flock 2001



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Version: 3.8

Revision Date: 05.01.2023

Print Date: 06.01.2023

tional 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.

GB / EN