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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 05.04.2016 Version number 3 Revision: 05.04.2016

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

- · 1.1 Product identifier
- · Trade name: splitting agent FL 02
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use SU23 Electricity, steam, gas water supply and sewage treatment
- · Product category

PC20 Products such as ph-regulators, flocculants, precipitants, neutralisation agents

- · Application of the substance / the mixture Agent for reaction seperation.
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

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· Informing department:

Information available by telephone number for respective country given above.

· 1.4 Emergency telephone number:

Informationszentrale gegen Vergiftungen Bonn Tel. +49 (0) 228 / 19240

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



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· Signal word Danger

· Hazard-determining components of labelling:

Aluminium sulfate hydrate

· Hazard statements

H318 Causes serious eye damage.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

· 2.3 Other hazards

- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 17927-65-0 EINECS: 233-135-0	Aluminium sulfate hydrate	♦ Eye Dam. 1, H318	10-25%
CAS: 497-19-8 EINECS: 207-838-8 Reg.nr.: 01-2119485498-19-xxxx	sodium carbonate	◆ Eye Irrit. 2, H319	10-25%

· Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information

Instantly remove any clothing soiled by the product.

Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse.

- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact

Generally the product does not irritate the skin.

Instantly wash with water and soap and rinse thoroughly.

· After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· After swallowing

Rinse mouth.

In case of persistent symptoms consult doctor.

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

No further relevant information available.

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

No further relevant information available.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

· Suitable extinguishing agents

The product itself does not burn.

Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Can be released in case of fire

Carbon monoxide (CO)

Sulphur dioxide (SO2)

- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid formation of dust.

Avoid contact with eyes and skin.

Wear protective clothing.

- 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Collect mechanically.

Send for recovery or disposal in suitable containers.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Prevent formation of dust.

Avoid contact with eyes and skin.

Information about protection against explosions and fires:

Dust can combine with air to form an explosive mixture.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and containers:

Store only in the original receptacle.

Do not use light alloy receptacles.

Store cool and dry in tightly closed receptacles.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

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· 8.1 Control parameters

· Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

497-19-8 sodium carbonate

Inhalative Worker - Long term - Local effects 10 mg/m³

- · 8.2 Exposure controls
- Personal protective equipment
- General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Avoid contact with the eyes and skin.

Wash hands during breaks and at the end of the work.

· Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· Protection of hands:

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.5 mm

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Eye protection: Tightly sealed safety glasses.
- · Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on ba	sıc pnysıcaı and	i chemical	properties
· General Information			

· Appearance:

Form: Powder
Colour: Light grey
Odour: Uncharacteristic.

• **pH-value:** 6 - 8

· Change in condition

Melting point/Melting range: Not determined **Boiling point/Boiling range:** Not determined

· Flash point: Not applicable

· **Self-inflammability:** Product is not selfigniting.

· Danger of explosion: Product is not explosive.

Density
 Relative density at 20 °C
 Not determined
 2.4 g/cm³

· Solubility in / Miscibility with

Water: Insoluble

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· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions

Reacts with strong acids.

Reacts with light metals.

- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products:

None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification:

497-19-8 sodium carbonate

Oral LD50 2800 mg/kg (Rat)

Dermal LD50 > 2000 mg/kg (Rabbit)

- Primary irritant effect:
- · Skin corrosion/irritation

More frequent and continuous contact with the skin may result in irritation of the skin.

Long-term skin contact may cause skin irritation and/or dermatitis.

· Serious eye damage/irritation

Causes serious eye damage.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity:

497-19-8 sodium carbonate

EC50 (48 h) 200 - 227 mg/l (Ceriodaphnia spec.)

LC50/96 h 300 mg/l (Lepornis macrochirus)

- 12.2 Persistence and degradability Heavily biodegradable
- · 12.3 Bioaccumulative potential No bioaccumulative potential.
- 12.4 Mobility in soil No further relevant information available.

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- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

The waste code numbers mentioned are recommendations based on the probable use of the product.

· Europe	· European waste catalogue		
19 00 00	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE		
19 08 00	wastes from waste water treatment plants not otherwise specified		
	19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 08 13		

- Uncleaned packagings:
- · Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Dispose of packaging according to regulations on the disposal of packagings.

Disposal must be made according to official regulations.

· 14.1 UN-Number · ADR,RID,ADN, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR,RID,ADN, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR,RID,ADN, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR,RID,ADN, IMDG, IATA	Void	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	

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	, 10
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

No further relevant information available.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Because the formulation was not available, the material safety data sheet is based on the information of the material safety data sheet of the supplier.

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

· Department issuing data specification sheet:

The safety data sheets were drawn up in cooperation with the Umweltkanzlei Dr.Rhein Beratungsund Prüfgesellschaft mbH, Phone: +49 5066 900990.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

* Data compared to the previous version altered.