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

Printing date 05.07.2018 Version number 5.0 Revision: 05.07.2018

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

- · 1.1 Product identifier
- · Trade name: Reaktionstrennmittel FL 11
- · 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 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

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

BEKO TECHNOLÖGIES GMBH

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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 sulphate

· Hazard statements

H318 Causes serious eye damage.

· Precautionary statements

P280 Wear 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: 10043-01-3 EINECS: 233-135-0 Reg.nr.: 01-2119531538-36-xxxx		♦ Eye Dam. 1, H318	5-<10%
CAS: 497-19-8 EINECS: 207-838-8 Reg.nr.: 01-2119485498-19-xxxx	sodium carbonate	🗘 Eye Irrit. 2, H319	5-<10%

<sup>·</sup> 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.

Use fire fighting measures that suit the environment.

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

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

Avoid formation of dust.

Avoid contact with eyes and skin.

Wear protective clothing.

Ensure adequate ventilation

- · 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:

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

Avoid contact with eyes and skin.

Prevent formation of dust.

- · Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and containers:

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.
- · Storage class 13
- · 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.
- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

10043-01-3 aluminium sulphate

WEL Long-term value: 2 mg/m3

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· DNELs		
497-19-8	sodium carbonate	
Inhalative	Worker - Long term - Local effects	10 mg/m³
	Consumer - Acute - 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

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

Avoid contact with the eyes and skin.

· Breathing equipment:

Filter P2

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: ≥ 0.4 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 basic physical an General Information		
Appearance:		
Form:	Powder	
Colour: Odour:	Beige Undistinguishable	
	Undistinguishable.	
pH-value (5 g/l) at 20 °C:	7.5 - 8	
Change in condition		
Melting point/freezing point:	Not determined	
Initial boiling point and boiling rang	ge: Not determined	
Flash point:	Not applicable	
Self-inflammability:	Product is not selfigniting.	
Explosive properties:	Product is not explosive.	
Density	Not determined	
Settled apparent density at 20 °C	ca. 780 kg/m³	
Solubility in / Miscibility with		
Water:	Slightly soluble.	
Solvent content:		
VOC (EC)	0.00 %	

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

## **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 v	alues that ar	e relevant for	classification:
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10043-01-3 aluminium sulphate

Oral LD50 6,207 mg/kg (Rat)

497-19-8 sodium carbonate

Oral LD50 2,800 mg/kg (Rat)

Dermal LD50 >2,000 mg/kg (Rabbit)

- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · 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:

10043-01-3 aluminium sulphate

LC50 (96 h) 36.1 mg/l (Gambusia affinis) (Stockmeier)

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 No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 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.

· European waste catalogue

19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13

- · Uncleaned packagings:
- Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Dispose of packaging according to regulations on the disposal of packagings.

· Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information	n
· 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.
· 14.7 Transport in bulk according to Annex of Marpol and the IBC Code	t <b>II</b> Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

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· UN "Model Regulation":

Void

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

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)

VOC: Volatile Organic Compounds (USA, EU)

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 – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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