

Page 1/7

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

Printing date 05.04.2016

Version number 4

Revision: 05.04.2016

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 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: BEKO TECHNOLOGIES GMBH Im Taubental 7 D - 41468 Neuss Tel.: +49 (0) 2131 988-0 Fax: +49 (0) 2131 988-900 E-Mail: msds@beko-technologies.com

www.beko-technologies.com

• 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



(Contd. on page 2)

⁻ GB

according to 1907/2006/EC, Article 31

Printing date 05.04.2016

Version number 4

Revision: 05.04.2016

Trade name: Reaktionstrennmittel FL 11 (Contd. of page 1) · Signal word Danger · Hazard-determining components of labelling: aluminium sulphate · Hazard statements H318 Causes serious eye damage. · Precautionary statements Wear protective gloves/protective clothing/eye protection/face protection. P280 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 compone	nts:
---------------------	------

· Dangerous components.			
CAS: 10043-01-3 EINECS: 233-135-0	aluminium sulphate	🔶 Eye Dam. 1, H318	5-<10%
Reg.nr.: 01-2119531538-36-xxxx			
CAS: 497-19-8	sodium carbonate	🚸 Eye Irrit. 2, H319	5-<10%
EINECS: 207-838-8		· -	
Reg.nr.: 01-2119485498-19-xxxx			
Additional information For the wording of the listed hazard phrases refer to section 16.			

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

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	or.
· 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.	
(Contd. on	page

according to 1907/2006/EC, Article 31

Printing date 05.04.2016

Version number 4

Revision: 05.04.2016

Trade name: Reaktionstrennmittel FL 11

(Contd. of page 2)

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: 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 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.

· 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

(Contd. on page 4)

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

ade name: Reaktionstrennmittel I	FL 11	
		(Contd. of page 3
· 8.2 Exposure controls		
· Personal protective equipment		
· General protective and hygienic	c measures	
Keep away from foodstuffs, bever		
Take off immediately all contamin		
Wash hands during breaks and a		
Avoid contact with the eyes and s	kin.	
· Breathing equipment:		
Filter P2	pollution use breathing filter app	aratus. In caso of intensivo o
	paratus that is independent of circu	
· Protection of hands:		
	consideration of the penetration t	imes, rates of diffusion and the
degradation		
· Material of gloves		
Nitrile rubber, NBR		
Recommended thickness of the m	naterial: \geq 0.4 mm	
· Penetration time of glove mater	ial	
	s to be found out by the manufactu	rer of the protective gloves and
has to be observed.		
· Eye protection: Tightly sealed sa		
· Body protection: Protective work	c clothing.	
SECTION 9: Physical and	chemical properties	
· 9.1 Information on basic physic	al and chamical properties	
· General Information	ai and chemical properties	
· Appearance:		
Form:	Powder	
Colour:	Beige	
· Odour:	Undistinguishable.	
· pH-value (5 g/l) at 20 °C:	7.5 - 8	
	7.5 0	
 Change in condition 		
	Not doto moino d	
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
Boiling point/Boiling range: Flash point:	Not determined Not applicable	
Boiling point/Boiling range: • Flash point: • Self-inflammability:	Not determined	
Boiling point/Boiling range: Flash point:	Not determined Not applicable	
Boiling point/Boiling range: • Flash point: • Self-inflammability:	Not determined Not applicable Product is not selfigniting.	
Boiling point/Boiling range: · Flash point: · Self-inflammability: · Danger of explosion:	Not determined Not applicable Product is not selfigniting. Product is not explosive. Not determined	
Boiling point/Boiling range: · Flash point: · Self-inflammability: · Danger of explosion: · Density	Not determined Not applicable Product is not selfigniting. Product is not explosive. Not determined C ca. 780 kg/m ³	
Boiling point/Boiling range: · Flash point: · Self-inflammability: · Danger of explosion: · Density · Settled apparent density at 20 °	Not determined Not applicable Product is not selfigniting. Product is not explosive. Not determined	
Boiling point/Boiling range: • Flash point: • Self-inflammability: • Danger of explosion: • Density • Settled apparent density at 20 ° • Solubility in / Miscibility with Water:	Not determined Not applicable Product is not selfigniting. Product is not explosive. Not determined C ca. 780 kg/m ³	
Boiling point/Boiling range: • Flash point: • Self-inflammability: • Danger of explosion: • Density • Settled apparent density at 20 ° • Solubility in / Miscibility with	Not determined Not applicable Product is not selfigniting. Product is not explosive. Not determined C ca. 780 kg/m ³	

No further relevant information available.

• 9.2 Other information

(Contd. on page 5)

GB

according to 1907/2006/EC, Article 31

Printing date 05.04.2016

Version number 4

Revision: 05.04.2016

Trade name: Reaktionstrennmittel FL 11

(Contd. of page 4)

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 values that are relevant for classification:

10043-01-3 aluminium sulphate

Oral LD50 6207 mg/kg (Rat)

- · 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.
- \cdot 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)

- 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.
- · 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.
- \cdot 12.6 Other adverse effects No further relevant information available.

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 05.04.2016

Version number 4

Revision: 05.04.2016

Trade name: Reaktionstrennmittel FL 11

(Contd. of page 5)

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 informat	tion
· 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 Ani of Marpol and the IBC Code 	nex II Not applicable.
· 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
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.

(Contd. on page 7)

GB

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.04.2016

Version number 4

Revision: 05.04.2016

Printing date 05.04.2016	version number 4	Revision: 05.04.2016
Trade name: Reaktionstrennmitt	el FL 11	
• 15.2 Chemical safety assess	ment: A Chemical Safety Assessmen	(Contd. of page 6) It has not been carried out.
SECTION 16: Other info		
	present knowledge. However, they sha nd shall not establish a legally valid c	
 Relevant phrases H318 Causes serious eye dam H319 Causes serious eye irrita 	•	
 Department issuing data spectrum The safety data sheets were of und Prüfgesellschaft mbH, Photon 	Irawn up in cooperation with the Umv	weltkanzlei Dr.Rhein Beratungs-
International Carriage of Dangerous G IMDG: International Maritime Code for IATA: International Air Transport Asso	ort des marchandises dangereuses par Route coods by Road) r Dangerous Goods ociation	e (European Agreement concerning the
	Classification and Labelling of Chemicals ing Commercial Chemical Substances	

ELINCS: European List of Notified Chemical Substances

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.**

VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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