

Page 1/7

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

Printing date 05.07.2018

Version number 4.0

Revision: 05.07.2018

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 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 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 05.07.2018

Version number 4.0

Revision: 05.07.2018

Trade name: splitting agent FL 02

(Contd. of page 1) · Signal word Danger · Hazard-determining components of labelling: Aluminium sulfate hydrate · 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 components:

· 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 becard phrases refer to eastion 16			

· 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.

(Contd. on page 3)

GP

according to 1907/2006/EC, Article 31

Printing date 05.07.2018

Version number 4.0

Revision: 05.07.2018

Trade name: splitting agent FL 02

(Contd. of page 2)

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: No special measures required.
- · 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

· 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.

(Contd. on page 4)

GB

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

Version number 4.0

de name:	splitting agent FL (02		
				(Contd. of pag
 Compone The produ 	ol parameters ents with limit value oct does not contain at the workplace.			orkplace: with critical values that have to
· DNELs				
497-19-8	sodium carbonate			
Inhalative	Worker - Long term	n - Local effects	10 mg/m³	
	Consumer - Acute	- Local effects	10 mg/m³	
 General p Keep awa Take off in Avoid con Wash han Breathing In case of longer exp Filter P2 Protection Selection degradatio 	bosure use breathing n of hands: of the glove materia on	enic measures everages and food minated clothing ad skin. I at the end of th low pollution use g apparatus that is	e work. e breathing filter aj s independent of cir	oparatus. In case of intensive culating air. n times, rates of diffusion and
Nitrile rubl Recomme Penetratio The exact has to be Eye prote	nded thickness of th on time of glove m break through time	aterial has to be found d safety glasses.		turer of the protective gloves
Nitrile rubl Recomme • Penetratio The exact has to be • Eye prote • Body pro	ber, NBR inded thickness of th on time of glove m break through time observed. inction: Tightly seale	aterial has to be found d safety glasses. work clothing.	out by the manufac	turer of the protective gloves a
Nitrile rubl Recomme • Penetration The exact has to be • Eye prote • Body pro SECTIO • 9.1 Inform	ber, NBR ended thickness of th on time of glove ma break through time observed. ection: Tightly seale tection: Protective v	aterial has to be found d safety glasses. work clothing. nd chemical p	out by the manufac	turer of the protective gloves
Nitrile rubl Recomme - Penetration The exact has to be - Eye prote - Body pro SECTIO - 9.1 Inform - General In - Appearan	ber, NBR ended thickness of the break through time observed. action: Tightly sealed tection: Protective w N 9: Physical an nation on basic phy nformation	aterial has to be found d safety glasses. work clothing. nd chemical p ysical and chem	out by the manufac	turer of the protective gloves a
Nitrile rubl Recomme The exact has to be Eye prote Body pro SECTIO • 9.1 Inform General II • Appearan Form:	ber, NBR ended thickness of the break through time observed. action: Tightly sealed tection: Protective w N 9: Physical an nation on basic phy nformation	aterial has to be found d safety glasses. work clothing. nd chemical p ysical and chem	out by the manufac	turer of the protective gloves
Nitrile rubl Recomme The exact has to be Eye prote Body pro SECTIO 9.1 Inform General II Appearan Form: Colour:	ber, NBR ended thickness of the break through time observed. action: Tightly sealed tection: Protective w N 9: Physical an nation on basic phy nformation	aterial has to be found d safety glasses. work clothing. nd chemical p ysical and chem Pow Ligh	out by the manufac	turer of the protective gloves
Nitrile rubl Recomme The exact has to be Body prote Body pro SECTIO 9.1 Inform General II Appearam Form: Colour:	ber, NBR anded thickness of the break through time observed. action: Tightly sealed tection: Protective of N 9: Physical an mation on basic phy formation ace:	aterial has to be found d safety glasses. work clothing. nd chemical p ysical and chem Ligh Unc	out by the manufac	turer of the protective gloves
Nitrile rubl Recomme The exact has to be Body prote Body pro SECTIO 9.1 Inform General II Appearam Form: Colour: Odour: pH-value:	ber, NBR anded thickness of the break through time observed. action: Tightly seale tection: Protective w N 9: Physical a mation on basic phy formation ace:	aterial has to be found d safety glasses. work clothing. nd chemical p ysical and chem Pow Ligh	out by the manufac	turer of the protective gloves
Nitrile rubl Recomme The exact has to be Body prote Body pro SECTIO 9.1 Inform General II Appearan Form: Colour: Odour: H-value: Change ii Melting	ber, NBR anded thickness of the break through time observed. action: Tightly sealed tection: Protective of N 9: Physical an mation on basic phy formation ace:	aterial has to be found d safety glasses. work clothing. nd chemical p ysical and chem Ligh Unc 6 - 8	out by the manufac	turer of the protective gloves
Nitrile rubl Recomme The exact has to be Body prote Body pro SECTIO 9.1 Inform General II Appearan Form: Colour: Odour: H-value: Change ii Melting	ber, NBR anded thickness of the break through time observed. action: Tightly seale tection: Protective w N 9: Physical an nation on basic phy nformation ace: an condition point/freezing point oiling point and bo	aterial has to be found d safety glasses. work clothing. nd chemical p ysical and chem Ligh Unc 6 - 8 nt: Not illing range: Not	out by the manufac	turer of the protective gloves
Nitrile rubl Recomme The exact has to be Body prote Body pro SECTIO 9.1 Inforn General II Appearan Form: Colour: Odour: DH-value: Change in Melting Initial b	ber, NBR anded thickness of the break through time observed. action: Tightly sealed tection: Protective w N 9: Physical an nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy	aterial has to be found d safety glasses. work clothing. nd chemical p ysical and chem Ligh Unc 6 - 8 nt: Not iling range: Not Not	out by the manufac	
Nitrile rubl Recomme The exact has to be Body prote Body pro SECTIO 9.1 Inforn General II Appearan Form: Colour: Odour: DH-value: Change ii Melting Initial bo Self-inflai	ber, NBR anded thickness of the break through time observed. action: Tightly sealed tection: Protective w N 9: Physical an nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy nation on basic phy	aterial has to be found d safety glasses. work clothing. nd chemical p ysical and chem Ligh Unc 6 - 8 nt: Not iling range: Not Not Proc	out by the manufac	
Nitrile rubl Recomme The exact has to be Body prote Body pro SECTIO 9.1 Inforn General II Appearan Form: Colour: Odour: DH-value: Change ii Melting Initial bo Self-inflai	ber, NBR anded thickness of the break through time observed. action: Tightly sealed tection: Protective of N 9: Physical and anation on basic phy information ace: and condition point/freezing point oiling point and bo nt: mmability: a properties:	aterial has to be found d safety glasses. work clothing. nd chemical p ysical and chem Ligh Unc 6 - E nt: Not iling range: Not Not Proc	out by the manufac	ng.

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

Printing date 05.07.2018

Version number 4.0

Revision: 05.07.2018

	(Contd. of p
Relative density at 20 °C	2.4 g/cm³
· Solubility in / Miscibility with	
Water:	Insoluble
Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
Solvent content:	
Solids content:	100.0 %
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
- \cdot 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 2,800 mg/kg (Rat)

Dermal LD50 >2,000 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.
- \cdot 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.

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 05.07.2018

Version number 4.0

Revision: 05.07.2018

Trade name: splitting agent FL 02

(Contd. of page 5)

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.
- · 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	cata	logue
------------	-------	------	-------

•	-
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 19 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	

according to 1907/2006/EC, Article 31

Printing date 05.07.2018

Version number 4.0

Revision: 05.07.2018

Trade name: splitting agent FL 02

	(Contd. of page
· 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 Anne of Marpol and the IBC Code 	x 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.
- · 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 Beratungs-

und 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 - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 • * Data compared to the previous version altered.