

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Elektrolyte salt

Revision date: 29.03.2017

Product code: 097-006

Page 1 of 8

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Elektrolyte salt

Further trade names

Article No.: 097-006-00

REACH Registration Number: 01-2119487136-33-XXXX

CAS No: 1310-58-3

Index No: 019-002-00-8

EC No: 215-181-3

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Health services.

1.3. Details of the supplier of the safety data sheet

Company name: DENTAURUM GmbH & Co. KG

Street: Turnstr. 31

Place: D-75228 Ispringen

Telephone: +49 7231 803 0

Telefax: +49 7231 803 295

e-mail: info@dentaurum.de

Internet: www.dentaurum.com

Further Information

Emergency telephone:

07:00 - 16:15 (Mo - Do), 07:00 - 13:15 (Fr) +49 7231 803 184

16:15 - 18:00 (Mo - Do), 13:15 - 18:00 (Fr) +49 7231 803 0

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1A

Hazard Statements:

Harmful if swallowed.

Causes severe skin burns and eye damage.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

caustic potash, potassium hydroxide

Signal word: Danger**Pictograms:****Hazard statements**

H290

May be corrosive to metals.

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Elektrolyte salt

Revision date: 29.03.2017

Product code: 097-006

Page 2 of 8

Precautionary statements

- P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

2.3. Other hazards

none

SECTION 3: Composition/information on ingredients**3.1. Substances****Chemical characterization**

caustic potash, potassium hydroxide

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
1310-58-3	caustic potash, potassium hydroxide			95-100 %
	215-181-3	019-002-00-8		
	Acute Tox. 4, Skin Corr. 1A; H302 H314			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection!

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with: Water. Subsequently wash off with: Polyethylene glykol 400.
 Remove contaminated, saturated clothing immediately.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Hazards identification: Stomach perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

Irritation and etching

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

No data available

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.
 Foam. Extinguishing powder. Carbon dioxide (CO₂). Water fog.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Elektrolyte salt

Revision date: 29.03.2017

Product code: 097-006

Page 3 of 8

5.2. Special hazards arising from the substance or mixture

none

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Disposal: see section 13

Safe handling: see section 7

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust. Avoid contact with skin, eyes and clothes.

Notice the directions for use on the label.

Advice on protection against fire and explosion

No special measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container dry. Keep container tightly closed.

Keep only in the original container.

7.3. Specific end use(s)

none

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

Additional advice on limit values

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Elektrolyte salt

Revision date: 29.03.2017

Product code: 097-006

Page 4 of 8

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Recommendation:

Dermatril 740 Single-use gloves. NBR (Nitrile rubber). 0,11 mm

penetration time (maximum wearing period): 480 min.

REF 162-907-00 (7/S), REF 162-908-00 (8/M), REF 162-909-00 (9/L)

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	colourless
Odour:	odourless

Test method

pH-Value (at 20 °C):	approx. 14 at g/L 56
----------------------	----------------------

Changes in the physical state

Melting point:	410 °C
Initial boiling point and boiling range:	(1013 hPa) 1327 °C
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
Flash point:	not applicable
Sustaining combustion:	No data available

Flammability

Solid:	No data available
Gas:	No data available

Explosive properties

The product is not: explosive

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	not applicable
Decomposition temperature:	No data available

Oxidizing properties

The product is not: Flammable

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Elektrolyte salt

Revision date: 29.03.2017

Product code: 097-006

Page 5 of 8

Vapour pressure:	not applicable
Vapour pressure:	No data available
Density (at 20 °C):	2,04 g/cm ³
Bulk density:	1300 kg/m ³
Water solubility: (at 20 °C)	1120 g/L
Partition coefficient:	No data available
Viscosity / dynamic:	No data available
Viscosity / kinematic:	No data available
Flow time:	No data available
Vapour density:	No data available
Evaporation rate:	No data available
Solvent separation test:	No data available
Solvent content:	No data available

9.2. Other information

Solid content:	No data available
----------------	-------------------

Corrosion: May be corrosive to metals.

Odour threshold: not applicable

SECTION 10: Stability and reactivity**10.1. Reactivity**

Exothermic reactions with: Water.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibly extensive generation of hydrogen on contact with amphoteric metals (e.g. aluminium, lead, zinc) (explosive hazard!).

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Acute toxicity (oral): If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Acute toxicity (inhalant): Causes burns. Coughing. shortage of breath.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Elektrolyte salt

Revision date: 29.03.2017

Product code: 097-006

Page 6 of 8

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1310-58-3	caustic potash, potassium hydroxide				
	oral	LD50 273 mg/kg	Rat	RTECS	

Irritation and corrosivity

Irritant effect on the skin: strongly corrosive. Species: Rabbit

Irritant effect on the eye: Causes serious eye damage. Species: Rabbit

Sensitising effects

no danger of sensitization.

Carcinogenic/mutagenic/toxic effects for reproduction

No data available

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information**12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
1310-58-3	caustic potash, potassium hydroxide					
	Acute fish toxicity	LC50 80 mg/l	96 h	Gambusia affinis	IUCLID	

12.2. Persistence and degradability

not applicable

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

The product needs to apply neutralizing agents before draining to wastewater treatment plants.

Discharge into the environment must be avoided.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Send to a hazardous waste incinerator facility under observation of official regulations.

Waste disposal number of used product

060299 WASTES FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of bases; wastes not otherwise specified

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Elektrolyte salt

Revision date: 29.03.2017

Product code: 097-006

Page 7 of 8

Contaminated packaging

Non-contaminated packages may be recycled.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: UN 1813
14.2. UN proper shipping name: POTASSIUM HYDROXIDE, SOLID
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Classification code: C6
 Limited quantity: 1 kg
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 80
 Tunnel restriction code: E

Marine transport (IMDG)

14.1. UN number: UN 1813
14.2. UN proper shipping name: POTASSIUM HYDROXIDE, SOLID
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Special Provisions: -
 Limited quantity: 1 kg
 Excepted quantity: E2
 EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1813
14.2. UN proper shipping name: POTASSIUM HYDROXIDE, SOLID
14.3. Transport hazard class(es): 8
14.4. Packing group: II
 Hazard label: 8



Limited quantity Passenger: 5 kg
 Passenger LQ: Y844
 Excepted quantity: E2

IATA-packing instructions - Passenger:	859
IATA-max. quantity - Passenger:	15 kg
IATA-packing instructions - Cargo:	863
IATA-max. quantity - Cargo:	50 kg

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Elektrolyte salt

Revision date: 29.03.2017

Product code: 097-006

Page 8 of 8

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Yes.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

Additional information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 14.

Indication of changes:

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

SECTION 7: Handling and storage

SECTION 9: Physical and chemical properties

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 14: Transport information

SECTION 15: Regulatory information

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.