

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Elektrolyte salt

Revision date: 22.02.2024

Product code: 097-006

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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

UFI: GV00-5AJS-ANG4-CE2N

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

Contact person: Chemie

Internet: www.dentaurum.com

1.4. Emergency telephone number:

+497231803-184 7:00-16:15 (Mo-Do) 7:00-13:15 (Fr)

+497231803-0 16:15-18:00 (Mo-Do) 13:15-18:00 (Fr)

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

Acute Tox. 4; H302

Skin Corr. 1A; H314

Full text of hazard statements: see SECTION 16.

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

potassium hydroxide; caustic potash

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

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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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+P312	IF SWALLOWED: Call a doctor if you feel unwell.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dusts or mists.
P234	Keep only in original packaging.

2.3. Other hazards

none

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

potassium hydroxide; caustic potash

Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
1310-58-3	potassium hydroxide; caustic potash	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.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
1310-58-3	215-181-3	potassium hydroxide; caustic potash	95-100 %
	oral: ATE = 500 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2		

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. Remove contaminated, saturated clothing immediately.

After ingestion

Do NOT induce vomiting. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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 mist.

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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. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

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

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

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.

Follow the instructions for use on the label.

Advice on protection against fire and explosion

No special measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep/Store only in original container. Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep container tightly closed.

7.3. Specific end use(s)

none

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

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

8.2. Exposure controls**Appropriate engineering controls**

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

Individual protection measures, such as personal protective equipment

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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:	
Colour:	colourless
Odour:	odourless
Melting point/freezing point:	410 °C
Boiling point or initial boiling point and boiling range:	1327 °C
Flammability:	No data available
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	not applicable
Decomposition temperature:	No data available
pH-Value (at 20 °C):	approx. 14 at g/L
Viscosity / kinematic:	No data available
Water solubility: (at 20 °C)	1120 g/L
Solubility in other solvents	No data available
Partition coefficient n-octanol/water:	No data available
Vapour pressure:	not applicable
Vapour pressure:	not applicable
Density (at 20 °C):	2,04 g/cm ³
Bulk density:	1300 kg/m ³
Relative vapour density:	No data available

9.2. Other information

Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive

Sustaining combustion:

No data available

Oxidizing properties

The product is not: Flammable

Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

No data available

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Solid content:	No data available
Sublimation point:	No data available
Softening point:	No data available
Pour point:	No data available
Viscosity / dynamic:	No data available
Flow time:	No data available

Further Information

Corrosion: May be corrosive to metals.
 Odour threshold: not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

Acute toxicity (inhalant): Causes burns.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1310-58-3	potassium hydroxide; caustic potash				
	oral	ATE 500 mg/kg			

Irritation and corrosivity

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

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

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

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11.2. Information on other hazards
Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information
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

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

The product has not been tested.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

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
Disposal recommendations

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

List of Wastes Code - used product

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

Contaminated packaging

Non-contaminated packages may be recycled.

SECTION 14: Transport information
Land transport (ADR/RID)
14.1. UN number or ID 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

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Marine transport (IMDG)

14.1. UN number or ID 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 or ID 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

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Yes.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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

Restrictions on use (REACH, annex XVII):
 Entry 75

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

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.

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SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,4,7,9,11.

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 above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.