METTLER TOLEDO SAFETY DATA SHEET

according to the Globally Harmonized System

Electrolyte O2

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

1.1. Product identifier

Product name Electrolyte O2

Product code 59911404, 51340294

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

Use of the Substance/Mixture Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Company/Undertaking

Identification

Mettler-Toledo GmbH Im Langacher 44 CH-8606 Greifensee

Switzerland

Tel: +41 22 567 53 22 Fax: +41 22 567 53 23 Email: ph.lab.support@mt.com

1.4. Emergency telephone

number

(24-Hour-Number): GBK GmbH +49 6132 84463

Issuing date 30.11.2017

Version GHS 2

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Skin corrosion/irritation, Cat. 1, H314

Additional information For the full text of the phrases mentioned in this Section, see

Section 16.



2.2. Label elements



Signal Word Danger

Hazard Statements H314: Causes severe skin burns and eye damage.

Precautionary statements P280: Wear protective gloves/ protective clothing/ 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.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

Supplemental information: Dispose of contents/container according to local and national

regulations.

Product identifier potassium hydroxide; caustic potash, CAS-No. 1310-58-3, EC-No.

215-181-3

2.3. Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Water based solution of inorganic salts.

Components		CLP Classification	Product identifier
Deionised water	97.5% - 99.5%		CAS-No.: 7732-18-5 EC-No.: 231-791-2
potassium hydroxide; caustic potash	0.5% - 1%	Acute Tox. 4 H302, Skin Corr. 1A H314 [CSk1A: C ≥ 5 % CSk1B: 2 % ≤ C < 5 % CSk2: 0,5 % ≤ C < 2 % CEy2: 0,5 % ≤ C < 2 %]	CAS-No.: 1310-58-3 EC-No.: 215-181-3 Index-No: 019-002-00-8

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

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Inhalation Move to fresh air in case of accidental inhalation of vapours or

decomposition products. Consult a physician for severe cases.

Skin contact Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes. If skin irritation persists, call a

physician.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. If eye

irritation persists, consult a specialist.

Ingestion Rinse mouth. Consult a physician for severe cases.

4.2. Most important symptoms and effects, both acute and

If you feel unwell, seek medical advice (show the label where possible).

delayed

4.3. Indication of any immediate medical attention and special

treatment needed

None known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry extinguishing agent or

carbon dioxide.

Extinguishing media which must not be used for safety reasons

None.

5.2. Special hazards arising from

the substance or mixture

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

5.3. Advice for firefighters

Special protective equipment for

firefighters

Standard procedure for chemical fires. In the event of fire, wear self-contained breathing apparatus. Wear protective suit.

Specific methods Water mist may be used to cool closed containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel

Ensure adequate ventilation. Use personal protective equipment. Sweep up to prevent slipping hazard. Avoid contact with skin and eyes. Do not breathe vapours/dust.



Advice for emergency

responders

Handle in accordance with good industrial hygiene and safety

practice. Use personal protective equipment. Sweep up to prevent

slipping hazard.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable and closed

containers for disposal.

6.4. Reference to other sections

See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Wear personal protective equipment. Avoid contact with skin and

eves.

7.2. Conditions for safe storage, including any incompatibilities

Store at room temperature in the original container. Storage class 8.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)No data is available on the product itself.

potassium hydroxide; caustic potash (CAS 1310-58-3)		
United Kingdom - Workplace	2 mg/m3 STEL	
Exposure Limits (WELs) - STELs		
U.S OSHA - Vacated PELs -	2 mg/m3 Ceiling	
Ceilings		

8.2. Exposure controls

Appropriate engineering controls Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protectionNo personal respiratory protective equipment normally required.

Breathing apparatus needed only when aerosol or mist is formed.

Hand protection Gloves made of Nitril. The selected protective gloves have to satisfy

the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Break through time: > 4 h. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions

(mechanical strain, duration of contact).

Eye protection Safety glasses with side-shields conforming to EN166.



Skin and body protection Long sleeved clothing.

Thermal hazards No special measures required.

Environmental exposure controls Prevent product from entering surface water or sewage.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Liquid. Colour Colourless. Odour None.

Odour Threshold Not determined.

pH: 12.5

Melting point/range: Not determined. **Boiling point/range:** Not determined. Flash point: Not determined.

Evaporation Rate: Not determined. Flammability: Not determined. **Explosion limits:** Not determined. Not determined. Vapour pressure: Vapor density: Not determined.

Relative density: ~1 g/ml

Water solubility: completely miscible Not determined. Partition coefficient (n-

octanol/water):

Autoignition temperature: Not determined. **Decomposition temperature:** Not determined. Viscosity: Not determined. **Explosive properties:** not hazardous

Oxidising properties: None

9.2. Other information

General Product Characteristics No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity No information available.

10.2. Chemical stability Stable at normal conditions.

10.3. Possibility of hazardous

reactions

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No information available.

10.4. Conditions to avoid Not required.

10.5. Incompatible materials None.





SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicityNo data is available on the product itself.

Deionised water (CAS 7732-18-5)

Oral LD50 Rat > 90 mL/kg (FOOD_JOURN)

potassium hydroxide; caustic potash (CAS 1310-58-3)

Oral LD50 Rat = 284 mg/kg (JAPAN_GHS)

Skin corrosion/irritation Corrosive.

Serious eye damage/eye

irritation

Risk of serious damage to eyes.

Respiratory / Skin Sensitisation No data available.

Carcinogenicity No data available.

Germ cell mutagenicity No data available.

Reproductive toxicity No data available.

Specific target organ toxicity

(single exposure)

No data available.

Specific target organ toxicity

(repeated exposure)

No data available.

Aspiration hazard No data available.

Human experience No data available.

Information on likely routes of

exposure

dermal

Symptoms related to the physical, chemical and toxicological characteristics

May cause eye/skin irritation.

SECTION 12: Ecological information

12.1. Toxicity No data is available on the product itself. May change pH of waters.

12.2. Persistence and

degradability

Expected to be biodegradable.

12.3. Bioaccumulative potential Bioaccumulation is unlikely.

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12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

No information available.

12.6. Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Dispose of as unused product.

SECTION 14: Transport information

ADR/RID UN 1814

Proper shipping name: POTASSIUM HYDROXIDE SOLUTION.

Class 8.

Packing group III. ADR/RID-Labels 8. Classification code C5. Hazard identification no. 80.

Limited quantity 5 L. Excepted quantity E1. Tunnel restriction code E

IMDG UN 1814.

Proper shipping name: POTASSIUM HYDROXIDE SOLUTION.

Class 8.

Packing group III.
IMDG-Labels 8.
Limited quantity 5 L.
Excepted quantity E1.
EmS F-A, S-B.
Marine pollutant: No.

IATA UN 1814.

Proper shipping name: Potassium hydroxide solution.

Class 8.

Packing group III. IATA label 8.

Packing instruction (passenger aircraft): 852 (5 L).

Packing instruction (LQ): Y841 (1 L).

Packing instruction (cargo aircraft): 856 (60 L).



Inland navigation ADN UN 1814.

Proper shipping name: POTASSIUM HYDROXIDE SOLUTION.

Class 8

Packing group III. ADN labels 8.

Classification code C5. Limited quantity 5 L. Excepted quantity E1.

Further Information None.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information The product is classified and labelled according to Regulation (EC)

No. 1272/2008.

Deionised water (CAS 7732-18-5)			
Inventory - United States - Section	Present (ACTIVE)		
8(b) Inventory (TSCA)			
U.S TSCA (Toxic Substances	Present (listed under Certain forms of natural gas and water)		
Control Act) - Section 8(a) -			
Chemical Data Reporting Rule -			
Fully Exempt Substances			
potassium hydroxide; caustic potash (CAS 1310-58-3)			
EU - Cosmetics (1223/2009) -	Callosity softener, remover		
Annex III - Field of Application	Nail cuticle solvent		
and/or Use	Hair straightener		
	pH adjuster for depilatories		
	Other uses as pH adjuster		
EU - Cosmetics (1223/2009) -	1.5 % MAC (Callosity softener, remover)		
Annex III - Maximum Authorised	5 % MAC (Nail cuticle solvent, as Sodium hydroxide)		
Concentration	2 % MAC (Hair straighteners, general use, as Sodium hydroxide)		
	4.5 % MAC (Hair straighteners, professional use, as Sodium		
	hydroxide)		
EU - Cosmetics (1223/2009) -	General use, professional use (Hair straighteners)		
Annex III - Other Limitations and	<12.7 pH (pH adjuster for depilatories)		
Requirements	<11 pH (Other uses as pH adjuster)		
EU - REACH (1907/2006) - List of	Present		
Registered Substances			
Inventory - United States - Section	Present (ACTIVE)		
8(b) Inventory (TSCA)			
U.S CERCLA/SARA - Hazardous	1000 lb final RQ		
Substances and their Reportable	454 kg final RQ		
Quantities			
U.S CPSC (Consumer Product	Banned, 16 CFR 1500.17 (>=10% by weight in liquid drain		
Safety Commission) - Specially	cleaners)		
Regulated Substances	Add POISON to label, 16 CFR 1500.129 (>=10%		
	free or chemically unneutralized)		
U.S FIFRA - Listing of Pesticide	Section number 180.910		
Chemicals (40 CFR 180)	Section number 180.930		
U.S California - Occupational	2 mg/m3 PEL (caustic potash)		
Exposure Limits - PELs			
U.S California - Occupational	2 mg/m3 Ceiling		
Exposure Limits - Ceilings			



15.2. Chemical safety assessment

Not required.

SECTION 16: Other information

Key or legend to abbreviations

and acronyms

CLP: Classification according to Regulation (EC) No. 1272/2008

(GHS)

Key literature references and

sources for data

Information taken from reference works and the literature.

Classification procedure

Calculation method.

Full text of phrases referred to under sections 2 and 3

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality

specification.

