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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006
 (amended by Regulation (EU) 2015/830)

O2 electrolyte

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code 51340294

Synonyms None.

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 AG
 ANALYTICAL
 Sonnenbergstrasse 74
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 Schweiz
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1.4. Emergency telephone number +41-44-251 51 51 (Tox Center)

Issuing date 16.06.2015

Version GHS 2

2. Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Cat. 1B, H314

O2 electrolyte
 V. GHS 2 / 16.06.2015
 Print Date 18.06.2015

METTLER TOLEDO

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.

Additional advice

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

Packages < 125 ml

Danger

H314: Causes severe skin burns and eye damage.
 P280c: Wear protective gloves/ eye protection/ face protection.

2.3. Other hazards

No information available.

3. Composition/information on ingredients**Chemical characterization**

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.

4. First aid measures

4.1. Description of first aid measures

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

4.3. Indication of any immediate medical attention and special treatment needed None known.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use dry chemical, CO₂, water spray or alcohol foam.

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.

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.

7. Handling and storage

7.1. Precautions for safe handling Wear personal protective equipment. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities Store at room temperature in the original container.

7.3. Specific end use(s) No information available.

8. Exposure controls/personal protection

8.1. Control parameters

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

Potassium hydroxide (CAS 1310-58-3)
United Kingdom - Workplace
Exposure Limits (WELs) - STELs 2 mg/m³ STEL

8.2. Exposure controls

Occupational exposure controls Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment. Respirator with combination filter for vapour/particulate (EN 141).

Hand protection	The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Solvent-resistant gloves (butyl-rubber)
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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid.
Colour	Colourless.
Odour	None.
Odour Threshold	No information available.
pH:	12.5
Melting point/range:	No information available.
Boiling point/range:	No information available.
Flash point:	No information available.
Evaporation Rate:	No information available.
Flammability:	No information available.
Explosion limits:	No information available.
Vapour pressure:	No information available.
Vapor density:	No information available.
Relative density:	~1 g/ml
Water solubility:	completely miscible
Partition coefficient (n-octanol/water):	No information available.
Autoignition temperature:	No information available.
Decomposition temperature:	No information available.
Viscosity:	No information available.
Combustion/explosion hazards:	not hazardous
Oxidizing properties:	None

9.2. Other information

General Product Characteristics	No information available.
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10. Stability and reactivity

10.1. Reactivity	No information available.
10.2. Chemical stability	Stable at normal conditions.

10.3. Possibility of hazardous reactions	No information available.
10.4. Conditions to avoid	Not required.
10.5. Incompatible materials	None.
10.6. Hazardous decomposition products	None reasonably foreseeable.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data is available on the product itself. Water (CAS 7732-18-5) Oral LD50 Rat > 90 mL/kg (FOOD_JOURN) Potassium hydroxide (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.

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.
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.

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.

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.
Risk No. 80.
Limited quantity 5 L.
Excepted quantity E1 .
Tunnel code E

IMDG

UN 1814.
Proper shipping name Potassium hydroxide solution
Class 8.
Packing group III.
IMDG-Labels 8.
Marine Pollutant no
Limited quantity 5 L.
EmS F-A, S-B.

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. ADN danger 8+N3.
Further Information	None.

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.

Potassium hydroxide (CAS 1310-58-3)
EU - REACH (1907/2006) - List of Registered Substances Present

15.2. Chemical safety assessment Not required.

16. Other information

Key or legend to abbreviations and acronyms CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)

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.