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 59907065, 52206107, 30298424, 30298427
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 Mettler-Toledo AG
Identification Process Analytics
Im Hackacker 15
CH-8902 Urdorf
Schweiz
Tel: +41-44-729 62 11
Fax: +41-44-729 66 36
Email: process.hotline@mt.com

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 Skin corrosion/irritation, Cat. 1B, H314
Regulation (EC) No. 1272/2008
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.

<table>
<thead>
<tr>
<th>Components</th>
<th>CLP Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deionised water</td>
<td>97.5% - 99.5%</td>
</tr>
<tr>
<td>potassium hydroxide; caustic potash</td>
<td>0.5% - 1%</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Advice for non-emergency personnel</th>
<th>Ensure adequate ventilation. Use personal protective equipment. Sweep up to prevent slipping hazard. Avoid contact with skin and eyes. Do not breathe vapours/dust.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advice for emergency responders</td>
<td>Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment. Sweep up to prevent slipping hazard.</td>
</tr>
</tbody>
</table>

#### 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

<table>
<thead>
<tr>
<th>Exposure limit(s)</th>
<th>No data is available on the product itself.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Potassium hydroxide (CAS 1310-58-3)</strong></td>
<td>2 mg/m3 STEL</td>
</tr>
</tbody>
</table>

| 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.

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.