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SAFETY DATA SHEET

according to Regulation (EU) No. 453/2010

Electrolyte Ozone 6510

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

1.1. Product identifier

Product code 52201224

Synonyms None.

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

Use of the Substance/Preparation Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification Mettler-Toledo AG
Process Analytics
Im Hackacker 15
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1.4. Emergency telephone number +41-44-251 51 51 (Tox Center)

Revision Date 11.11.2014

Version GHS 1

2. Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Cat. 2, H315
Serious eye damage/eye irritation, Cat. 2, H319

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xi; R36/38

Additional information

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

2.2. Label elements



Signal Word

Warning

Hazard Statements

H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary statements

P280c: Wear protective gloves/ eye protection/ face protection.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical advice/ attention.

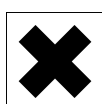
Additional advice

None.

GHS product identifier

potassium hydroxide; caustic potash, CAS-No. 1310-58-3, EC-No. 215-181-3

Labelling according to Directives 67/548/EEC or 1999/45/EC



Xi - Irritant.

R-phrases(s)

R36/38: Irritating to eyes and skin.

S-phrases(s)

S24: Avoid contact with skin.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Hazardous component(s) which must be listed on the label

potassium hydroxide; caustic potash, CAS-No. 1310-58-3, EC-No. 215-181-3

2.3. Other hazards

No information available.

3. Composition/information on ingredients

Chemical characterization

Electrolyte solution

Components		CLP Classification	DSD/DPD Classification	CAS	REACH No.
Deionised water	75% - 90%			7732-18-5	231-791-2
Kaliumbromid	10% - 15%			7758-02-3	231-830-3
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 %]	C; R-22-35 [C ≥ 25 % \ C; R-22-35 ; 5 % ≤ C < 25 % \ C; R-35 ; 2 % ≤ C < 5 % \ C; R-34 ; 0,5 % ≤ C < 2 % \ Xi; R-36/38]	1310-58-3	215-181-3

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. Consult an ophthalmologist.
Ingestion	Rinse mouth. Drink 1 or 2 glasses of water. Consult a physician if necessary.

4.2. Most important symptoms and effects, both acute and delayed None known.

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	No special measures required.

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.
Advice for emergency responders	Use personal protective equipment. Sweep up to prevent slipping hazard. Handle in accordance with good industrial hygiene and safety practice.

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 in original container. Store in a place accessible by authorized persons only.
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 2 mg/m³ STEL
Exposure Limits (WELs) - STELs

8.2. Exposure controls

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

Personal protection equipment

Respiratory protection In case of good ventilation no personal respiratory protective equipment required.

Hand protection Gloves made of latex. 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.

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

Skin and body protection Long sleeved clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Thermal hazards No special measures required.

Environmental exposure controls No special measures required.

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:	~ 0°
Boiling point/range:	~ 100°C
Flash point:	does not ignite
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:	No information available.
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

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 hazards to be specially mentioned.
10.4. Conditions to avoid	Not required.
10.5. Incompatible materials	Incompatible with acids.
10.6. Hazardous decomposition products	None under normal use.

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	Irritating to skin and mucous membranes.
Serious eye damage/eye irritation	Severe eye irritation.
Respiratory / Skin Sensitisation	None.
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.
Other information	The product contains no substances which at their given concentration, are considered to be hazardous to health.

12. Ecological information

12.1. Toxicity No data is available on the product itself.

Potassium bromide (CAS 7758-02-3)

Ecotoxicity - Freshwater Fish - Acute Toxicity Data 96 h LC50 Pimephales promelas: >30 mg/L [static]

12.2. Persistence and degradability No data available.

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. Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging Dispose of as unused product.

14. Transport information

ADR/RID Not required.

IMDG Not required.

IATA Not required.

Further Information

Not classified as dangerous in the meaning of transport regulations.

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 (GHS/CLP).

Potassium bromide (CAS 7758-02-3)

EU - REACH (1907/2006) - List of Registered Substances Present

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 None.

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.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

R22: Harmful if swallowed.
R35: Causes severe burns.
R36/38: Irritating to eyes and skin.

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 and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.