

Oxylyte G

Material number 237139

Page: 1 of 8

1. Product and company identification**Product identifier**

Trade name: Oxylyte G

Relevant identified uses of the substance or mixture and uses advised againstGeneral use: Electrolyte
For industrial purposes only.**Details of the supplier of the safety data sheet**Company name: Hamilton Bonaduz AG
Street/POB-No.: Via Crusch 8
Postal Code, city: 7402 Bonaduz
Switzerland
WWW: www.hamiltoncompany.com
Telephone: +41 58 610 10 10
Department responsible for information:
After-sales service
E-mail: techsupport.pa.ch@hamilton.ch**Emergency phone number****GIZ-Nord, Göttingen, Germany,
Telephone: +49 551-19240****2. Hazards identification****Emergency overview**Appearance: Physical state at 68 °F and 101.3 kPa: liquid
Color: colorless, clear
Odor: odorless
Classification: Skin Irritation - Category 2; Eye Irritation - Category 2A;

Hazard symbols:



Signal word:

Warning

Hazard statements:

Causes skin irritation.
Causes serious eye irritation.

Precautionary statements:

Wash hands and face thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see ' First aid ' on this label).
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Oxylite G

Material number 237139

Page: 2 of 8

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified

A corrosive effect cannot be ruled out because of the pH value.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterization: inorganic, aqueous solution

Relevant ingredients:

CAS No.	Designation	Concentration	Classification
CAS 1310-58-3	Potassium hydroxide	< 1 %	Corrosive to Metals - Category 1. Acute Toxicity - oral - Category 4. Skin Corrosion - Category 1A.

Additional information: Contains Disodium molybdate-2-hydrate.
The maximum workplace exposure limits are, where necessary, listed in section 8.

4. First aid measures

General information: In all cases of doubt, or when symptoms persist, seek medical advice.

In case of inhalation: Provide fresh air. If you feel unwell, seek medical advice.

Following skin contact: After contact with skin, wash immediately with plenty of water.
Remove contaminated clothing. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Do not induce vomiting. Consult physician immediately.
Rinse mouth and drink large quantities of water.
Put victim at rest, cover with a blanket and keep warm.

Most important symptoms/effects, acute and delayed

Causes skin irritation. Causes serious eye irritation.

Information to physician

Treat symptomatically.

5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature: No data available

Suitable extinguishing media:

Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

Specific hazards arising from the chemical

Fires in the immediate vicinity may cause the development of dangerous vapors.

Protective equipment and precautions for firefighters:

In case of surrounding fires: Wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions: Provide adequate ventilation. Avoid contact with the substance. Wear appropriate protective equipment.

Environmental precautions: Do not allow to penetrate into soil, waterbodies or drains.
If necessary notify appropriate authorities.

Methods for clean-up: Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Wash spill area with plenty of water.

Additional information: Render harmless: Neutralize with dilute sulphuric acid.

7. Handling and storage

Handling

Advices on safe handling: Wear appropriate protective equipment. Avoid contact with skin and eyes. Do not breathe vapor or spray.

Storage

Requirements for storerooms and containers: Keep container tightly closed. Store at room temperature.
Unsuitable materials: Aluminium, tin, zinc.

Hints on joint storage: Keep away from strong acids and strong alkaline material.

8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
10102-40-6	Disodium molybdate-2-hydrate	USA: ACGIH: TWA	0.5 mg/m ³
			soluble; inhalable fraction
		USA: ACGIH: TWA	10 mg/m ³
			insoluble; inhalable fraction
		USA: ACGIH: TWA	3 mg/m ³
1310-58-3	Potassium hydroxide		insoluble; respirable fraction
		USA: OSHA: TWA	15 mg/m ³
		USA: OSHA: TWA	5 mg/m ³
1310-58-3	Potassium hydroxide	USA: ACGIH: Ceiling	2 mg/m ³
		USA: NIOSH: Ceiling	2 mg/m ³

Engineering controls

When aerosols or vapors form: Withdraw by suction.
See also information in chapter 7, section storage.

Oxlyte G

Material number 237139

Page: 4 of 8

Personal protection equipment (PPE)

- Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.
- Skin protection: Wear suitable protective clothing.
Protective gloves according to OSHA Standard - 29 CFR: 1910.138.
Glove material: Nitrile rubber (0,11 mm).
Breakthrough time: >480 min.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Respiratory protection: With correct and proper use, and under normal conditions, breathing protection is not required.
- General hygiene considerations:
Avoid contact with skin and eyes. Remove contaminated clothing.
Wash hands before breaks and after work.
Have eye wash bottle or eye rinse ready at work place.

9. Physical and chemical properties**Information on basic physical and chemical properties**

- Appearance: Physical state at 68 °F and 101.3 kPa: liquid
Color: colorless, clear
- Odor: odorless
- Odor threshold: No data available
- pH: 13
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: No data available
- Flash point/flash point range: No data available
- Evaporation rate: No data available
- Flammability: No data available
- Explosion limits: No data available
- Vapor pressure: No data available
- Vapor density: No data available
- Density: approx. 1.2 g/mL
- Water solubility: miscible
- Partition coefficient: n-octanol/water: No data available
- Auto-ignition temperature: No data available
- Thermal decomposition: No data available
- Additional information: No data available

10. Stability and reactivity

- Reactivity: Refer to subsection "Possibility of hazardous reactions".
- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions:
Reacts with aluminium and zinc. Formation of hydrogen!
Reacts with ammonium compounds: Formation of ammonia.

Oxlyte G

Material number 237139

Page: 5 of 8

Conditions to avoid: No data available

Incompatible materials: Incompatible with animal and vegetable tissues, metals

Hazardous decomposition products:
No decomposition when used properly.

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.

Serious eye damage/irritation: Eye Irritation - Category 2A = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: A corrosive effect cannot be ruled out because of the pH value.

Information about Potassium hydroxide:
LD50 Rat, oral: 273 mg/kg.

Symptoms

In case of ingestion:
Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value. Forms corrosive mixtures with water even if diluted.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations**Product**

Recommendation: Dispose of waste according to applicable legislation.
Do not dispose of with household waste.

Package

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

14. Transport information**14.2 UN proper shipping name**

ADR/RID, IMDG, IATA-DGR:

Not restricted

Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

Environmental hazards

Marine pollutant:

no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

USA: Department of Transportation (DOT)

Proper shipping name:

Not restricted

Sea transport (IMDG)

Proper shipping name:

Not restricted

Marine pollutant:

no

Air transport (IATA)

Proper shipping name:

Not restricted

Further information

No dangerous good in sense of these transport regulations.

Oxlyte G

Material number 237139

Page: 7 of 8

15. Regulatory information

National regulations - U.S. Federal Regulations

Disodium molybdate-2-hydrate: TSCA listed: Disodium molybdate anhydrous, CAS 7631-95-0
 TSCA Inventory: listed
 TSCA HPVC: not listed

Potassium hydroxide: TSCA Inventory: listed
 TSCA HPVC: not listed
 Clean Water Act:
 Hazardous Substances: RQ 1000 lbs.
 Other Environmental Laws:
 CERCLA: RQ 1000 lbs.
 NIOSH Recommendations:
 Occupational Health Guideline: 0523

National regulations - U.S. State Regulations

Potassium hydroxide: California Proposition 65 code: not listed
 Delaware Air Quality Management List:
 DRQ: 1000 - RQ State: Federal Regulations Apply
 Idaho Air Pollutant List:
 Title 585: AAC: 0.1 - EL: 0.133 - OEL: 2 - Title 586: -
 Massachusetts Haz. Substance codes: 4,5 F8
 New York List of Hazardous Substances:
 RQ-Air: 1000 - RQ-Land: 100 - Note: No Note Associated with this chemical.
 Pennsylvania Haz. Substance code: E
 Washington Air Contaminant:
 Ceiling: 2 mg

National regulations - Great Britain

Hazchem-Code: -

16. Other information

Text for labeling: Contains < 1 % Potassium hydroxide. Safety data sheet available on request.

Hazard rating systems:



NFPA Hazard Rating:
 Health: 1 (Slight)
 Fire: 0 (Minimal)
 Reactivity: 0 (Minimal)
 HMIS Version III Rating:
 Health: 1 (Slight)
 Flammability: 0 (Minimal)
 Physical Hazard: 0 (Minimal)
 Personal Protection: B

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
B	

Oxylite G

Material number 237139

Page: 8 of 8

Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level

DNEL: Derived no-effect level

EC: European Community

EN: European Standard

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

LD50: Lethal dose 50%

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic

PNEC: Predicted no-effect concentration

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 1: Department responsible for information

Date of first version: 9/13/2010

Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.