

# **SAFETY DATA SHEET**

## **OXYPROBE® ELECTROLYTE**

(SDS Compliant with Regulation (EC)  
No 1907/2006 - N° 453/2010)



**Broadley-James Corporation**  
**Irvine, CA**

**Document Number: DS-062301**

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**SDS Safety Data Sheet (OxyProbe® Electrolyte)**
**Section 1: Identification of the substance/mixture and of the company/undertaking**

**Product Name:** OxyProbe® Electrolyte  
**Product ID:** AS-3140-C30-0025  
AS-3140-C30-0250  
**Chemical Characterization:** Aqueous inorganic salt solution  
**Supplier/Manufacturer:** Broadley-James Corporation  
19 Thomas  
Irvine, CA 92618  
Tel: +1 (949) 829-5555 Fax: +1 (949) 829-5564  
Email: msds@broadleyjames.com  
www.broadleyjames.com  
Emergency Telephone Number: +1 (949) 829-5555  
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**Section 2: Hazards Identification**
**Label elements:**

**CORROSIVE**

**Signal Word:** Danger  
**Classification according to Regulation (EC) No. 1272/2008:** Corrosive/irritating to eyes and skin – Cat 1 H314, H315 and H319  
**Hazard statements:** H314: Causes severe skin burns and eye damage  
H315: Causes skin irritation  
H319: Causes serious eye irritation  
**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 IN 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 information:** Dispose of container and its contents according to local/national regulations.

**SDS Safety Data Sheet (OxyProbe® Electrolyte)**
**Section 3: Composition/information on ingredients**
**Solution Contains:**

Chemical Name	CAS NO	EC NO	% Weight	ACGIH TWA	Acute Toxicity	IARC	NTP	OSHA
Potassium Chloride	7447-40-7	231-211-8	< 0.5%	NA	4 – H302 & skin corrosion 1A – H314	NA	NA	NA
Potassium Hydroxide	1310-58-3	215-181-3	< 0.6%	NA	4 – H302 & skin corrosion 1A – H314	NA	NA	NA
De-ionized Water	7732-18-5	231-791-2	99.0-99.5%	NA	NA	NA	NA	NA

**Section 4: First aid measures**
**Inhalation:**

Move to fresh air in the case of accidental inhalation. In severe cases, consult a GP/physician.

**Skin contact:**

Wash off immediately with soap and water and remove all contaminated clothes and shoes. Consult a GP/physician if skin irritation persists.

**Eye contact:**

Rinse thoroughly with plenty of water, including under the eyelids. If eye irritation persists, consult a specialist.

**Ingestion:**

Immediately give large quantities of water to drink. Consult a physician in severe cases. Ensure plenty of water is given to drink.

**Section 5: Firefighting measures**
**Suitable extinguishing media:**

Use water spray, alcohol-resistant foam, dry extinguishing agent or carbon dioxide.

**Extinguishing media that must not be used for safety reasons:**

None.

**Specific hazards:**

Product is not flammable.

**Special protective equipment for firefighters:**

Use standard procedures for chemical fires.

## SDS Safety Data Sheet (OxyProbe® Electrolyte)

### Section 6: Accidental release measures

<b>Personal precautions:</b>	Use personal protective equipment. Avoid contact with skin/eyes. Do not inhale vapors and ensure area is well ventilated.
<b>Environmental precautions:</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for cleaning up:</b>	Use inert material to soak up and dispose of in suitable closed containers.

### Section 7: Handling and storage

<b>Handling:</b>	When using, do not eat, drink or smoke. Wear personal protective clothing. Avoid contact with skin and eyes. Wash hands after handling.
<b>Storage:</b>	Keep containers tightly closed. Store in its original container at room temperature.

### Section 8: Exposure controls/personal protection

<b>Engineering measures to reduce exposure:</b>	Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of the workday.
<b><u>Personal protection:</u></b>	
<b>Respiratory protection:</b>	No personal respiratory protective equipment normally required.
<b>Hand protection:</b>	Nitrile gloves. Ensure these gloves satisfy the relevant specifications of the EU Directive 89/686/EEC and the standard EN 374 derived from this.
<b>Eye protection:</b>	Safety glasses with side shields, these must conform to EN 166.
<b>Body/Skin protection:</b>	Long sleeved clothing.
<b>Thermal hazards:</b>	No special requirements needed.
<b>Environmental exposure controls:</b>	Ensure this product does not enter sewage or surface water.

**SDS Safety Data Sheet (OxyProbe® Electrolyte)**
**Section 9: Physical and Chemical Properties**

<b>Form:</b>	Liquid
<b>Color:</b>	Colorless; Clear
<b>Odor:</b>	None
<b>pH:</b>	12.5
<b>Melting point/range:</b>	Undetermined
<b>Boiling point/range:</b>	>100° C
<b>Relative density:</b>	~1 g/ml
<b>Flash point:</b>	Does not ignite
<b>Water solubility:</b>	Completely miscible
<b>Evaporation rate:</b>	Undetermined
<b>Vapor pressure:</b>	Undetermined
<b>Vapor density:</b>	Undetermined
<b>Partition coefficient (n-octanol/water):</b>	Undetermined
<b>Decomposition temperature:</b>	Undetermined
<b>Viscosity:</b>	Undetermined
<b>Explosive properties:</b>	Non-hazardous
<b>Oxidizing properties:</b>	None

**Section 10: Stability and Reactivity**

<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	Extremes of temperature and direct sunlight.
<b>Materials to avoid:</b>	Incompatible with acids. Corrodes base metals.
<b>Hazardous decomposition products:</b>	None known.

**SDS Safety Data Sheet (OxyProbe® Electrolyte)**
**Section 11: Toxicological information**

<b>Acute toxicity:</b>	KOH-Potassium Hydroxide CAS: 1340-58-3 LD50/Oral/Rat = 273 mg/kg LD50/Dermal/Rabbit = 1mg (24hr) mild irritation H2O-De-ionized water CAS:7765-18-5 KCl Electrolyte CAS:7447-70-7 (pH13)
<b>Local effects:</b>	Irritating to eyes and skin.
<b>Long term toxicity:</b>	Chronic intensive skin contact may cause dermatitis.
<b>Sensitization:</b>	None.
<b>Specific effects:</b>	No data is available on the product itself.
<b>Human experience:</b>	This product has no known adverse effect on human health.
<b>Further information:</b>	No persistent or cumulative effects have been observed.

**Section 12: Ecological information**

<b>Ecotoxicity:</b>	Wastewater from subsequent processing should be given appropriate treatment in line with local regulations. May change the water pH.
<b>Mobility:</b>	No available data on the product itself.

**Section 13: Disposal considerations**

<b>Waste from residues/unused products:</b>	Consult local regulations. This product may be disposed of as wastewater after neutralization.
<b>Contaminated packaging:</b>	Offer rinsed packaging material to local recycling facilities.

**SDS Safety Data Sheet (OxyProbe® Electrolyte)**
**Section 14: Transport information**
**ADR (Rail/Road):**

UN814

Shipping Name: Potassium Hydroxide solution

Class: 8

Packaging Group: III

Labels: ADR - Labels 8

Classification code: C5

Hazard identification no: 80

Limited Quantity: 5 L

Excepted Quantity: E1

Tunnel restriction code: E

**IMDG (Sea):**

UN1814

Shipping Name: Potassium Hydroxide solution

Class: 8

Packaging Group: III

Labels: IMDG - Labels 8

Limited Quantity: 5 L

Excepted Quantity: E1

EmS: F-A, S-B

Marine Pollutant: No

**IATA (Air):**

UN1814

Shipping Name: Potassium Hydroxide solution

Class: 8

Packaging Group: III

Labels: IATA - Label 8

Packing instruction: (Passenger aircraft): 852 (5 L)

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

Packing instructions: (Cargo aircraft): 856 (60 L)

## SDS Safety Data Sheet (OxyProbe® Electrolyte)

**ADN (inland navigation):** UN1814  
Shipping Name: Potassium Hydroxide solution  
Class: 8  
Packaging Group: III  
Labels: ADN - Labels 8  
Classification code: C5  
Limited Quantity: 5 L  
Excepted Quantity: E1

### Section 15: Regulatory Information

**Regulatory information:** This product is classified and labeled in accordance with EC Regulation No: 1272/2008.  
**Symbol(s):** 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

#### De-ionized water (CAS 7732-18-5):

Inventory – USA – Section 8(b) Present (Active)  
Inventory (TSCA=Toxic substances control Act)  
Inventory – USA – Section 8(a) Present (listed under certain forms of natural gas and water)  
Inventory (TSCA) – Chemical Data  
Reporting Rule – Fully exempt substance

#### Potassium Hydroxide (CAS 1310-58-3):

EU Regulations 1223/2009 – General use, professional use  
Cosmetics (Annex III - Field  
Application and/or use & Other  
limitations and requirements &  
Maximum Authorized Concentration)  
EU – REACH – Regulation Present  
1907/2006 (List of Registered  
Substances)  
Inventory – USA – Section 8b Present (Active)  
Inventory (TSCA)



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USA – CPSC (Consumer Product Safety Commission) – Specially Regulated Substances

Banned, 15 CFR 1500.17 ( $\geq 10\%$  by weight in liquid drain cleaners). Add POISON to the label, 16 CFR 1500.129 ( $\geq 10\%$  free or chemically not neutralized).

US – FIFRA – Listing of Pesticide chemicals (40 CFR 180)

Section 180.910 and 180.930

US – California – Occupational exposure limits (PELs and Ceilings)

2 mg/m<sup>3</sup> PEL/ceilings

**Potassium Chloride**  
**(CAS 7447-40-7):**

SARA 302 Components

This material does not contain any components with a section 302 EHS TPQ

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels establish by SARA Title III, Section 313.

Massachusetts Right to Know Components

No components are subject to the Massachusetts Right to Know Act

## Section 16: Other Information

**Recommended use:**

For industrial use only

**End of Use**

The aforementioned information should be used for guidance only for safe handling, general use, processing, storage, transportation, disposal and release.