

SAFETY DATA SHEET

OXYPROBE® ELECTROLYTE

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

Broadley®
James

**Broadley-James Corporation
Irvine, CA**

**Document Number: DS-062301
Revision: 2
Date: July 12, 2025
Current as of: July 12, 2025**

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
Issuing Date: June 23, 2023
Revision Date: May 00, 2025

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**

Personal precautions: Use personal protective equipment. Avoid contact with skin/eyes. Do not inhale vapors and ensure area is well ventilated.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Use inert material to soak up and dispose of in suitable closed containers.

Section 7: Handling and storage

Handling: When using, do not eat, drink or smoke. Wear personal protective clothing. Avoid contact with skin and eyes. Wash hands after handling.

Storage: Keep containers tightly closed. Store in its original container at room temperature.

Section 8: Exposure controls/personal protection

Engineering measures to reduce exposure: Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of the workday.

Personal protection:

Respiratory protection: No personal respiratory protective equipment normally required.

Hand protection: Nitrile gloves. Ensure these gloves satisfy the relevant specifications of the EU Directive 89/686/EEC and the standard EN 374 derived from this.

Eye protection: Safety glasses with side shields, these must conform to EN 166.

Body/Skin protection: Long sleeved clothing.

Thermal hazards: No special requirements needed.

Environmental exposure controls: Ensure this product does not enter sewage or surface water.

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

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

Section 10: Stability and Reactivity

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

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

Acute toxicity:	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)
Local effects:	Irritating to eyes and skin.
Long term toxicity:	Chronic intensive skin contact may cause dermatitis.
Sensitization:	None.
Specific effects:	No data is available on the product itself.
Human experience:	This product has no known adverse effect on human health.
Further information:	No persistent or cumulative effects have been observed.

Section 12: Ecological information

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

Section 13: Disposal considerations

Waste from residues/unused products:	Consult local regulations. This product may be disposed of as wastewater after neutralization.
Contaminated packaging:	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-phrase(s):

R36/38 – Irritating to eyes and skin

S-phrase(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 1907/2006 (List of Registered Substances)

Present

Inventory – USA – Section 8b

Present (Active)

Inventory (TSCA)

SDS Safety Data Sheet (OxyProbe® Electrolyte)

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

Banned, 15 CFR 1500.17 (>=10% by weight in liquid drain cleaners). Add POISON to the label, 16 CFR 1500.129 (>=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/m3 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.