

SAFETY DATA SHEET

O2 ELECTROLYTE

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



BROADLEY-JAMES CORPORATION
IRVINE, CA

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MSDS Safety Data Sheet (O₂ Electrolyte)

Section 1: Identification of the substance/preparation and the company/undertaking

Product Name: Broadley-James Electrolyte solution for Oxygen Sensors
Product ID: AS-3140-C30-0025
AS-3140-C30-0250
Chemical Characterization: Water based inorganic salt mixture
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
Revision Date: June 23, 2023

Section 2: Hazards Identification

Irritating to eyes and skin.

Section 3: Composition/information on ingredients

Solution Contains:

CAS NO	Chemical Name	% Weight	ACGIH TWA	Acute Toxicity	IARC	NTP	OSHA
7447-40-7	Potassium Chloride	<0.5%	NA	NA	NA	NA	NA
1310-58-3	Potassium Hydroxide	<0.6%	NA	NA	NA	NA	NA

Section 4: First aid measures

Inhalation: No special measures required
Skin contact: Wash off with soap and water
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.

MSDS Safety Data Sheet (O₂ Electrolyte)

Section 5: Fire-fighting measures

Suitable extinguishing media: No special measures required.
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.

Section 6: Accidental release measures

Personal precautions: If spilled, sweep up to prevent slipping hazard
Environmental precautions: Do not flush into surface water or sanitary sewer system.
Methods for cleaning up: Flush with water.

Section 7: Handling and storage

Handling: When using, do not eat, drink or smoke. Avoid contact with skin and eyes. Wash hands after handling.
Storage: Keep containers tightly closed.

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 workday.

Personal protection equipment:

Respiratory protection: No personal respiratory protective equipment normally required.
Hand protection: Gloves
Eye protection: Safety glasses

MSDS Safety Data Sheet (O₂ Electrolyte)

Section 9: Physical and chemical properties

Form: Liquid
Color: Colorless; Clear
Odor: None
pH: 12.5
Boiling point/range: > 100°C
Relative density: ~1 g/ml
Flash point: Does not ignite
Water solubility: Completely miscible

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

Section 11: Toxicological information

Acute toxicity: Potassium hydroxide: LD50/oral/rat = 273 mg/kg;
 LD50/dermal/rabbit = 1mg (24h): mild irritation
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
Mobility: No available data on the product itself

MSDS Safety Data Sheet (O₂ Electrolyte)

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.

Section 14: Transport information

Further information:

Not classified as dangerous with regard to transport regulations.

Section 15: Regulatory information

Regulatory information:

This product is classified and labeled in accordance with EC directives or respective national laws

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

Section 16: Other information

Recommended use:

For industrial use only

Text of R phrases mentioned in section 2:

R22: Harmful if swallowed

R35: Causes severe burns

End use:

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. It is in no way meant to be considered a warranty or quality specification.