

# **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 (O<sub>2</sub> 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  
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 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 (O<sub>2</sub> 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 (O<sub>2</sub> 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 (O<sub>2</sub> 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.