



#### Section 1 Product Description

**Product Name** Dissolved Oxygen Electrolyte Solution

Recommended Use Equipment Calibration

Synonyms None known
Distributor Atlas Scientific

43-15 11th Street, Long Island City, NY 11101

718-387-2075

Chemical Information 800-227-1150 (8am-5pm M-F)

**Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

#### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

**GHS Classification** 

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%
Water	7732-18-5	70
Sodium Tetraborate	1303-96-4	15
Sodium Chloride	7647-14-5	15

#### Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact** After contact with skin, wash immediately with plenty of water.

**Ingestion** If swallowed, do not induce vomiting: seek medical advice immediately and show this

container or label.

# Section 5 Firefighting Procedures

Fire Fighting Methods and Protection Firefighters should wear full protective equipment and NIOSH

approved self-contained breathing apparatus.

Fire and/or Explosion Hazards Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products Phosphorus compounds, Potassium Oxide, Sodium Oxides

### Section 6 Spill or Leak Procedures

Steps to Take in Case Material are Released or Spilled

Environmental Precautions

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Avoid breathing material. Avoid contact with skin and eyes. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

## Section 7 Handling and Storage

**Handling** Avoid contact with skin and eyes.





Storage Keep container tightly closed in a cool, well-ventilated place.

Storage Code Green - general chemical storage

#### **Section 8** Protection Information

ACGIH OSHA PEL

 Chemical Name
 (TWA)
 (STEL)
 (TWA)
 (STEL)

 Sodium Tetraborate
 N/A
 N/A
 N/A
 N/A
 N/A

 Sodium Chloride
 N/A
 N/A
 N/A
 N/A
 N/A

Control Parameters

Engineering Measures Local exhaust ventilation or other engineering controls are normally required when

handling or using this product to avoid overexposure.

Personal Protective

**Equipment (PPE)** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection** No respiratory protection required under normal conditions of use.

Respirator Type(s)

None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Eye Protection Wear chemical splash goggles when handling this product. Have an eye

wash station available.

**Skin Protection** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

work.

Gloves No information available

## Section 9 Physical Data

Formula See Section 3

Molecular Weight No data available

Appearance Colorless Depends upon product selection.

The color additives do not affect product hazards. Liquid

**Odor** None

**Odor** Threshold No data available

**Dissolved Oyxgen** Electrolyte Solution

Melting Point Estimated 0°C

**Boiling Point 100°C** 

Flash Point No data available

Flammable Limits in Air No data available

Vapor Pressure No data available

Evaporation Rate (BuAc=1) No data available Vapor Density (Air=1) No data available

**Specific Gravity** Approx. 1

**Solubility in Water** Soluble

Log Pow (calculated) No data available
Autoignition Temperature No data available
Decomposition Temperature No data available

Viscosity No data available

Percent Volatile by Volume No data available

## Section 10 Reactivity Data

**Reactivity** Not generally reactive under normal conditions.

**Chemical Stability** Stable under normal conditions.

Conditions to Avoid None known.

Incompatible Materials Water-reactive materials

Hazardous Decomposition

**Products** Sodium Oxides, Potassium Oxide, Phosphorus compounds

Hazardous Polymerization Will not occur





## Section 11 Toxicity Data

**Routes of Entry** Ingestion, skin and eye contact.

Symptoms (Acute) No data available
Delayed Effects No data available

Acute Toxicity

Chemical Name CAS Number Oral LD50 Dermal LD50 Inhalation LC50

Water 7732-18-5 Oral LD50 Rat 90000 mg/kg

Sodium Tetraborate 1303-96-4 Sodium Chloride 7647-14-5

Carcinogenicity

Chemical NameCAS NumberIARCNTPOSHASodium Tetraborate1303-96-4Not listedNot listedNot listedSodium Chloride7647-14-5Not listedNot listedNot listed

**Chronic Effects** 

Mutagenicity No evidence of a mutagenic effect.

Teratogenicity No evidence of a teratogenic effect (birth defect).

Sensitization No evidence of a sensitization effect.

Reproductive No evidence of negative reproductive effects.

**Target Organ Effects** 

Acute Respiratory system, Cardiovascular system, Musculoskeletal system

Chronic No information available

## Section 12 Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.

**Mobility:** This material is expected to have high mobility in soil. It absorbs weakly to most soil types.

Persistence: Dissolved into water

**Bioaccumulation:** Bioconcentration is not expected to occur.

Degradability:No dataOther Adverse Effects:No data

Chemical NameCAS NumberEco ToxicityWater7732-18-5No data available

 Volume
 7732-18-3

 Sodium Tetraborate
 1303-96-4

 Sodium Chloride
 7647-14-5

### Section 13 Disposal Information

**Disposal Methods**Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s) Not Determined

#### **Section 14** Transport Information

**Ground - DOT Proper Shipping Name**Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name
Not regulated for air transport by IATA.





Section 15	Regulatory lı	Regulatory Information					
TSCA Status	All components in this	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS § 313 Name Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ		
Sodium Tetraborate Sodium Chloride	1303-96-4 No 7647-14-5 No	No No	No No	No No	No No		

#### Section 16 Additional Information

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Atlas Scientific makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

#### Glossary

**ACGIH** American Conference of Governmental Industrial Hygienists

CAS Chemical Abstract Service Number

**CERCLA** Comprehensive Environmental Response, Compensation, and Liability Act

**DOT** U.S. Department of Transportation

IARC International Agency for Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

**PEL** Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

**TLV** Threshold Limit Value

**TSCA** Toxic Substances Control Act

**IDLH** Immediately dangerous to life and health