



Section 1 Product Description

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|-----------------------------|---|
| Product Name | Dissolved Oxygen 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 Sulfite | 7757-83-7 | 30 |

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

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| Extinguishing Media | Use media suitable to extinguish surrounding fire. |
| 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

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| Steps to Take in Case Material are Released or Spilled | 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 |
| Environmental Precautions | 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

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|-----------------|-----------------------------------|
| Handling | Avoid contact with skin and eyes. |
|-----------------|-----------------------------------|



**Storage
Storage Code**

Keep container tightly closed in a cool, well-ventilated place.
Green - general chemical storage

Section 8 Protection Information

| | ACGIH | OSHA PEL |
|--|--|----------|
| Chemical Name | (TWA) | (TWA) |
| Sodium Sulfite | N/A | N/A |
| | (STEL) | (STEL) |
| | 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. | |
| Skin Protection | Eye Protection Wear chemical splash goggles when handling this product. Have an eye wash station available. | |
| | 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

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|--|---|
| Formula See Section 3 | Vapor Pressure No data available |
| Molecular Weight No data available | Evaporation Rate (BuAc=1) No data available |
| Appearance Colorless Depends upon product selection. The color additives do not affect product hazards. Liquid | Vapor Density (Air=1) No data available |
| Odor None | Specific Gravity Approx. 1 |
| Odor Threshold No data available | Solubility in Water Soluble |
| Dissolved Oxygen Solution | Log Pow (calculated) No data available |
| Melting Point Estimated 0°C | Autoignition Temperature No data available |
| Boiling Point 100°C | Decomposition Temperature No data available |
| Flash Point No data available | Viscosity No data available |
| Flammable Limits in Air No data available | Percent Volatile by Volume No data available |

Section 10 Reactivity Data

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|---|--|
| 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 | CAS Number | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|-------------------|------------------------------|---------------------------------------|------------------------|
| Chemical Name Water | 7732-18-5 | Oral LD50 Rat 90000 mg/kg | | |
| Sodium Sulfite | 7757-83-7 | Oral LD50 Rat 3200 mg/kg | Dermal LD50 Rabbit > 4640 mg/kg | |
| Carcinogenicity | CAS Number | IARC | NTP | OSHA |
| Chemical Name Sodium Sulfite | 7757-83-7 | Not listed | Not listed | Not 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 data
Other Adverse Effects: No data

| Chemical Name | CAS Number | Eco Toxicity |
|----------------------|-------------------|---------------------|
| Water | 7732-18-5 | No data available |
| Sodium Sulfite | 7757-83-7 | |

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 Information

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|----------------------|--|-------------------|-----------------|------------------|------------------|----------------------|
| TSCA Status | All components in this product are on the TSCA Inventory. | | | | | |
| Chemical Name | CAS Name | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
| Sodium Sulfite | 7757-83-7 | No | No | No | No | No |

Section 16 Additional Information

Revised 09/16/2015

Replaces 09/16/2015

Printed 09/16/2015

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 |