

MATERIAL SAFETY DATA SHEET

Product Name: eOx Oxygen Cleaner

Product Code:

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: eOx Oxygen Cleaner

Manufacturer: Bergdahl Associates, Inc.
2990 Sutro Street
Reno, NV 89512-1616
775-323-7542

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS#</u>	<u>% by Weight</u>
Sodium hydroxide	1310-73-2	<0.2
Surfactant	68439-46-3	>1 - <3

3. HAZARDS IDENTIFICATION

For Chemical Emergencies:

Spill, Leak, Fire or Accident

Call CHEMTREC

North America: (800) 424-9300

Others: (703) 527-3887(collect)

Emergency Overview:

Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Form: Liquid

Appearance: Clear

Odor: Characteristic

NFPA Hazard Class: Health: 0 (Least)
Flammability: 0 (Least)
Reactivity: 0 (Least)

Potential Health Effects:

Eye: Contact may cause mild eye irritation including stinging, watering and redness.

Skin: Contact may cause mild skin irritation including redness and burning sensation. No harmful effects from skin absorption have been reported.

Inhalation: No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion: Low to moderate degree of toxicity by ingestion.

Signs and Symptoms: Effects of overexposure may include vomiting and irritation of the nose, throat and digestive tract.

4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.

Inhalation: If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion: If swallowed, seek emergency medical attention. If victim is drowsy or unconscious and vomiting, place on the left side with the head down and do not give anything by mouth. If victim is conscious and alert and ingestion occurred within the last hour, vomiting should be induced for ingestions of large amounts (more than 5 ounces in an adult) preferably under direction from a physician or poison center. If possible, do not leave victim unattended and observe closely for adequacy of breathing.

5. FIRE FIGHTING MEASURES

Flammable Properties:

Flash Point: None

OSHA Flammability Class: Not regulated

LEL/UEL: None

Auto ignition Temperature: None

Unusual Fire & Explosion Hazards: Closed containers exposed to extreme heat can rupture due to pressure buildup.

Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Protection of Fire Fighters: Emergency responders in the danger area should wear bunker gear and self-contained breathing apparatus for fires beyond the incipient stage (29CFR 1910.156). In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate danger area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from danger area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Cool equipment exposed to fire with water, if it can be done with minimal risk.

6. ACCIDENTAL RELEASE MEASURES

Stay upwind and away from spill / release. Notify persons down wind of the spill/release, isolate danger area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material. Notify appropriate federal, state and local agencies. Immediate cleanup of any spill is recommended.

7. HANDLING AND STORAGE

Handling: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8). Wash thoroughly after handling. Use good personal hygiene practices.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: If current ventilation practices are not adequate to minimize exposure, additional ventilation or exhaust systems may be required.

Personal Protective Equipment (PPE):

Respiratory: Respiratory protection is not usually required.

Skin: The use of gloves impermeable to the specific material handled is advised to prevent skin contact and possible irritation.

Eye/Face: Use approved eye protection to safeguard against potential eye contact, irritation or injury. Depending on conditions of use, a face shield may be necessary.

General hygiene Considerations: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Values are determined at 20°C (68°F)

Flash Point:	None
Flammable / Explosive Limits (%):	None
Auto ignition Temperature:	None
Appearance:	Clear liquid
Odor:	Characteristic
pH:	12.80 (concentrated)
Vapor Pressure:	Water
Vapor Density (air=1):	No data
Boiling Point:	None
Freezing / Melting Point:	No data
Solubility in Water:	100%
Volume Weight:	1020 – 1040 kg/m ³
Percent Volatile:	No data
Evaporation Rate (nBuAc=1):	No data
Volatile Organic Compound (VOC):	0.7 g/l (concentrate)

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of storage and handling.
Conditions to Avoid:	None known.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	None known.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral (rat) LD50 >2000 mg/kg
Dermal (rat) LD50 >2000 mg/kg

Chronic Toxicity: No chronic toxicity has been identified.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: Non-ionic: EC50 (48 h) Daphnia Magna: 1-10 mg/l
LC50 (96 h) Rainbow Trout: 1-10 mg/l
Anionic: EC50 (48 h) Daphnia Magna: 38 mg/l
LC50 (96 h) Rainbow Trout: >100 mg/l

This material meets the Royal Degree dated 10/25/88 and the EC directives 73/404/EC, 73/405/EC, 82/242/EC, 82/242/EC, 86/243/EC, 86/94/EC concerning the biological degradability of surface-active substances.

13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not a RCRA "listed" or "characteristic" hazardous waste. Use resulting in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

14. TRANSPORT INFORMATION

DOT Proper Shipping Name / Technical Name: None
Hazard Class or Division: Not regulated
ID#: None
Packing Group: Not regulated

15. REGULATORY INFORMATION

Regulation Numbers and hazard: None

Symbols:

Content: None
R-Phrases: None
S-Phrases: 2 Store out of reach of children
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39 Wear suitable gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately.

16. DOCUMENTARY INFORMATION

NFPA Hazard Class: Health: (d) 0 (Least) (c) 1 (Least)
Flammability: 0 (Least)
Reactivity: 0 (Least)
(d = diluted, c = concentrate)

17. DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

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