Safety Data Sheet

HyperOX-126

1. IDENTIFICATION

Product name	HyperOX-126
Description	Proprietary aqueous solution
Product class	Specialty
Supplier address	399 Old Hwy 87 Dublin, NC 28332
Telephone numbers	
Company Phone Number	(910) 991-7700
Emergency Telephone	CHEMTREC 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Weight %
Proprietary Iron Cation Solution	Proprietary	2-8%
Buffering Agent	Proprietary	45-55%
Stabilizer	Proprietary	To 100%

2. HAZARDS IDENTIFICATION

Appearance and Odor: Dark yellowish green with mild to no odor.
Emergency Overview: A mildly corrosive material. Harmful or fatal if swallowed. This product poses a minimal inhalation hazard. Eye or skin contact may cause irritation. Avoid overexposure.
Fire and Explosion Hazards: Substance itself does not burn, but may decompose upon heating to produce corrosive and/or toxic fumes, such as hydrogen chloride and phosgene gas.
Carcinogenicity: None of the components of this material are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.
Summary of Acute Health Hazards
Ingestion – Toxic by ingestion. May cause irritation to the mouth and stomach. Higher doses may lead to abnormal liver function with nausea or vomiting, stomach pain, diarrhea, fast and weak pulse, lethargy, pallor, shock, hypertension, dilated pupils, fever, coma and even death. Individuals with pre-existing liver diseases may have increased susceptibility to the toxicity of exposure.
Inhalation – May cause mild irritation of the upper respiratory tract, resulting in difficulty breathing.
Skin Contact – Irritation and possibly burns from prolonged exposure.
Eye Contact – Irritation and possibly burns.

4. FIRST-AID MEASURES

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally to ensure complete rinsing. Remove contact lenses if present and easy to do, then resume rinsing. Get medical attention immediately.
Skin contact	Immediately remove all contaminated clothing. Rinse with copious amounts of water; use an emergency shower if available. Wash contaminated clothing before reuse.
Ingestion	If swallowed, DO NOT induce vomiting. Rinse mouth and get emergency medical attention. Do not give anything by mouth unless instructed to do so by a poison center or health care provider.
Inhalation	If inhaled, move victim to fresh air. Seek emergency medical attention if breathing is difficult; perform artificial respiration if breathing stops.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing media appropriate for the surrounding fire.
Unsuitable extinguishing media	No information available
Protective equipment and precautions for firefighters	Stay upwind of the fire. Full protective equipment including self-contained breathing apparatus should be used. Use water to cool closed containers. Contain water runoff if possible.
Specific hazards	Reaction with metals may produce highly flammable hydrogen gas.
Hazardous combustion products	Hydrogen Chloride, hydrogen, phosgene, iron oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate the area of all non-essential personnel. Do not touch spilled material without proper protective equipment. Ventilate the area and mitigate further release if it is safe to do so. Avoid contact with eyes.
Methods for clean-up	
Small spills	Contain spill and soak up with an inert absorbent material and place residues in a properly labeled container for disposal. Avoid discharge into sewer or surface water.
Large spills	Contain spill using trenches, diking, or absorption with an inert material (i.e. sand or earth). Reclaim spilled material into recovery or salvage drums or tank truck for proper disposal.

7. HANDLING AND STORAGE

Advice on safe handling	Use FRP or PVC pipes. Be cautious of substance residue in empty containers. Act according to precautions and warnings set forth.
Storage conditions	Do not store in mild steel containers. Fiberglass, plastic, stainless or rubber-lined tanks may be used for storage. Protect from damage and keep separated from incompatible substances. Ensure proper venting of storage area
Suitable materials of construction	Corrosion-resistant container; original container only is recommended.
Unsuitable materials of construction	Metals

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection	Chemical splash goggles, face shield
Skin protection	Chemical-resistant gloves and body-covering clothing
Respiratory protection	Observe published airborne exposure limits. NIOSH approved respirator should be used in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).
Engineering controls	Adequate ventilation, eye-wash station, and emergency shower
General hygiene considerations	Do not eat, drink, or smoke while handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

pH	2.1-6.0
Appearance	Green to brown liquid
Odor	Slight acrid
Odor Threshold	No information available
Melting/freezing point	-10°F
Initial boiling point/boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available

Vapor density	No information available
VOC content	No information available
Specific gravity	1.15-1.45
Solubility	Complete
Partition coefficient n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Chemical stability Stable under normal conditions of storage and handling.

Hazardous polymerization Polymerization will not occur.

Conditions to avoid Extreme temperatures, incompatibilities

Incompatibilities Strong bases, oxidizers, May corrode most metals with long term exposure (titanium is one exception). Avoid contact with nylon, aluminum/aluminum alloys, carbon steel, and copper / copper alloys. Metals, bases, halocarbons, acids, and combustible materials can be considered incompatible.

Hazardous decomposition products No known non-thermal decomposition hazards.

11. TOXICOLOGICAL INFORMATION

Chronic Effects Repeated dosage may cause hemosiderosis, including possible damage to liver and pancreas.

Toxicological Data No data available

Carcinogenicity None of the components of this material are listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Reproductive Effects No data available

Target Organs No data available

12. ECOLOGICAL INFORMATION

Persistence	No information available
Bioaccumulative potential	No information available
Mobility	No information available

13. DISPOSAL CONSIDERATIONS

Under the Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user to determine whether a substance should be classified as a hazardous waste at the time of disposal. This is due to the fact that product use, transformation, synthesis, mixtures, etc. may change the nature of the product. Product containers should be thoroughly emptied before disposal. Dispose of waste in accordance with applicable federal, state, and local laws.

14. TRANSPORT INFORMATION

DOT Shipping Name	HyperOX-126
Hazard Class	Non-Hazardous
UN Number	Not Applicable
Packing Group	II
Reportable Quantity	500 gal
Shipping Containers	Polyethylene totes/tanks, Rubber-lined steel or FRP tank cars/trucks
Storage Conditions	

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15. REGULATORY INFORMATION

OSHA Hazard Communication Status	OSHA Process Safety (29 CFR 1910.119): No

Section 311 and 312 Health and Physical Hazards

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	No	No	No	No

Section 313 Toxic Chemicals (40 CFR 372)

Chemical Name	CAS Number	Percent by Weight
None		

16. OTHER INFORMATION

HMIS Ratings	Health—2; Flammability—0; Reactivity—0
NFPA Ratings	Health—2; Flammability—0; Reactivity—0
HMIS/NFPA Rating Scale	Minimal—0; Slight—1; Moderate—2; Serious—3; Severe—4
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