

MATERIAL SAFETY DATA SHEET
ODOR-X COPERLATE

Issue Date 03/19/92
Revision Date 03/12/07
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SECTION 7 – ACCIDENTAL RELEASE MEASURES

Land Spill: Contain and vacuum up material and place in disposal container. Dilute residual material with ample supply of water and neutralize with sodium bicarbonate or limestone.

Water Spill: Readily mixes with water to form a weak acid solution. If water is isolated or can be contained, neutralize with weak alkaline solution. Notify appropriate authorities if required by regulations.

SECTION 8 – HANDLING AND STORAGE

Handling: Avoid contact with strong oxidizers. Do not use with material or equipment sensitive to corrosive solutions. Avoid storage in excessive heat, expansion of container may occur creating spillage. Do not store in steel, galvanized or nylon equipment.

SECTION 9 – PERSONAL PROTECTION

Respiratory Protection: Provide general and/or local exhaust ventilation to maintain good air quality and reduce fumes/odors. A NIOSH/MSHA approved air-purifying respirator may be appropriate where airborne concentrations are expected to exceed exposure limits.

Protective Gloves: Use appropriate chemical gloves that are in usable order

Other Protective Clothing or Equipment: Eye and face protection is necessary, long sleeved shirts, long pants, socks and shoes.

Work/Hygiene Considerations: Follow good industrial hygiene practices. Body shower for prolonged skin contact.

SECTION 10 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear blue liquid

Vapor Density (Air=1): 1.0

Vapor Pressure: 0.1mm 68° F

Specific Gravity (H₂O=1): 1.15 – 1.2

Odor: Minimal odor

pH: Less than 1

Solubility in Water: Complete

Melting Point: N/A

Physical State: Liquid, consistency of water

Evaporation Rate: N/A

Boiling Point: 220° F

SECTION 11 – REACTIVITY INFORMATION

Chemical Stability: Stable

Conditions to Avoid: Avoid mixing with strong bases and strong reducing agents.

compatibility: Incompatible with strong bases and strong reducing agents.

Hazardous Decomposition: Sulfuric fumes may be generated by thermal decomposition.

Hazardous Polymerization: Will not occur.

SECTION 12 – TOXICOLOGICAL INFORMATION

Acute Toxicity/Chronic Toxicity: Continued overexposure to this solution may cause systemic toxicity.

Carcinogenicity: N/A

Signs and Symptoms of Exposure: Overexposure may exhibit the following specific symptoms: vomiting, shallow respirations and lung function changes. May cause allergic reactions similar to sulfur allergies.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Instructions: Neutralize with bicarbonate of soda or fertilizer grade lime and dispose in accordance with all federal, state and local regulations.

SECTION 14 – TRANSPORTATION INFORMATION

DOT Information

Proper Shipping Name: Corrosive Liquid, acidic, inorganic, n.o.s. (contains cupric sulfate)

Hazard Class: 8

UN/NA#: UN3264

Packing Group: III

Shipping Containers: (polypropylene) 2.5, 5, 15, 30, 55 gallon drums, bulk containers, tank car, tank truck stainless steel.

Packages that contain more than 5.1 US gallons are RQ (reportable quantity)

Packages that contain less than 4.0 liters could be ORM-D

Proper shipping information is the responsibility of the shipper and this information is only guidelines.

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SECTION 1 – EMERGENCY TELEPHONE

24 Hour - 800-424-9300

SECTION 2 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: Odor-X Coperlate EPA No: 65109-1

Product Use: Algaecide/Bactericide

Chemical Formula: See components below.

CAS Number: See components below. This product is a mixture — there is no single CAS number.

Manufacturer: SSI Corporation

210 S Cedar Street

Julesburg, CO 80737

970-474-0974

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS Number	%	Exposure Limits
Water	7732-18-5	60 - 70	N/A
Sulfuric Acid	7664-93-9	10.75 – 13.5	N/A
Copper Sulfate	7758-99-8	18.5 – 21.5	N/A

SECTION 4 – HAZARDS IDENTIFICATION

Emergency Overview: Clear Blue Liquid that is classified as DOT corrosive. No unusual hazard if involved in a fire. However, keep out of streams and ditches due to pH lowering effects and metal and salt constituents. Treat as a corrosive.

Eye Contact: Corrosive. Causes mild to severe irritation. May cause burn if not flushed with water.

Skin Contact: Corrosive. Prolonged exposure may cause moderate irritation. May cause burn if not flushed with water.

Inhalation: Irritating

Ingestion: Corrosive. Will cause irritation or burn digestive tract.

Chronic (Cancer) Information: Not known to cause cancer. Components not listed as carcinogens by IARD, NTP or OSHA.

Reproduction Information: N/A

Potential Environmental Effects: Readily mixes with water to form a weak acid solution. The low pH, metal and salt components may be harmful to plant and animal organisms found in soil and in surface waters. Keep out of streams and ditches.

SECTION 5 – FIRST AID MEASURES

Note to Physician: Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. Treat as a corrosive and possible sulfur allergy reactions.

Eyes: Immediately flush eyes with water for at least 15 minutes, lifting eyelids to thoroughly flush. If redness or irritation persists, get prompt medical attention.

Skin: Immediately flush affected area with water for at least 15 minutes. If burn occurs, seek immediate medical attention.

Inhalation: Remove to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get immediate medical attention.

Ingestion: If ingested drink large quantities of water. DO NOT induce vomiting. Contact physician immediately.

SECTION 6 – FIRE AND EXPLOSION FIGHTING MEASURES

Flash Point: N/E

UFL: N/E

LFL: N/E

Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Because material will readily mix with water to form a weak acid solution, avoid water contact with material if possible.

Hazardous Combustion Products: At elevated temperatures the product will decompose generating oxides of sulfur. May react with high carbon metals to produce hydrogen gas, which can form an explosive mixture.

Fire Fighting Instructions: Firefighters must wear MSHA/NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment.

NFPA Ratings: Fire: 0

Health: 2

Reactivity: 1

Other: X

HMIS III ratings: Fire: 0

Health: 2

Reactivity: 1

Personal Protection: X