



MATERIAL SAFETY DATA SHEET

Oxine

I - PRODUCT IDENTIFICATION

Company Name: Nu-Calgon Wholesaler, Inc.
Address: 2008 Altom Court, St. Louis, MO 63146-4151
Product Name: Oxine
Synonyms: Sanitize and Deodorize

Tel No: (314) 469-7000, (800) 554-5499
CHEMTREC: (800) 424-9300
Product Number: 4295-12

II - HAZARDOUS INGREDIENTS OF MIXTURES

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Sodium Chlorite		3.35	N/A	N/A
Chlorine Dioxide		0.1	0.1	0.1

All ingredients are TSCA listed.

III - PHYSICAL DATA

Vapor Pressure: 23.7 mm Hg (25°C)
Evaporation Rate: Comparable to Water
Solubility in H₂O: Complete
Freezing Point °F: N/A
Boiling Point °F: 213 °F (100°C)
Specific Gravity H₂O=1 @25° C: 1.03 g/ml

Vapor Density (Air=1) 60-90° F: 0.02 kg/m
VOC Content (% by wt.):
pH @ Solution:
pH as Distributed:
Appearance: Clear liquid
Odor: Very faint chlorinous odor

IV - FIRE AND EXPLOSION

Flash Point F: None to boiling **Flammable Limits:** N/A
Extinguishing Media: Water unless contraindicated by other material involved in fire.
Special Fire Fighting Procedures: Do not allow Oxine solutions to evaporate to dryness. If chlorine dioxide gas is produced, vent atmosphere. Open or vent any large container of Oxine
Unusual Fire and Explosion Hazards: The sodium chlorite in dried Oxine is a strong oxidizer, which supports combustion. Chlorine dioxide, which may evolve from Oxine solutions, is explosive in the gaseous phase at concentrations greater than 10% by volume. Do not allow chlorine dioxide gas to accumulate within a confined space

V - REACTIVITY DATA

Stability - Conditions to avoid: Product is Stable. Avoid storing product under conditions in which it could evaporate to crystalline salt.
Incompatibility: Avoid accidental contact with acids, chlorine compounds, hypochlorites (bleach), sulfur and sulfite compounds, phosphorus, organic solvents, and combustible/flammable materials
Hazardous Decomposition Products: Exposure to acids or chlorine compounds can produce uncontrolled generation of chlorine dioxide gas
Conditions Contributing to Hazardous Polymerizations: Does not occur

VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects),

A. ACUTE (Primary Route of Exposure) INGESTION: Rat Oral LD50: 4.360 mg/Kg. Ingestion may produce gastric discomfort, nausea, vomiting and diarrhea. Intake of large quantities may produce methemoglobinemia. EYES: Based upon rabbit studies, product has been given an EPA Category III rating as a mild irritant. Exposure can produce slight irritation of conjunctiva, cornea and eyelid. SKIN: Based on rabbit studies, product is listed as "practically not an irritant". Prolonged exposure may produce localized irritation, contact dermatitis, mild erythema and edema. It is highly unlikely to be absorbed through the skin in toxic amounts. Rabbit Acute Dermal LD50 > 2,020 mg/Kg. INHALATION: Acute inhalation: LC50 > 5.61 mg/L. Prolonged inhalation of fog or mist containing Oxine may be irritating to nose and throat.

B. SUBCHRONIC, CHRONIC, OTHER : May cause localized irritation to areas exposed to product

C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE : Skin disorder, such as dermal allergies and dermatitis. Exposure to chlorine dioxide produced by activation can aggravate pulmonary disorders, such as emphysema

VII - EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Unactivated Oxine normally has no respiratory effects. If exposure to chlorine dioxide produced from activation occurs, remove victim to fresh air. Contact a physician if respiratory distress continues

EYES: Flush eyes thoroughly with water, making certain eyelids are held open. If irritation or burning persists, seek medical attention

SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and rinse thoroughly with water before laundering or discard. If irritation occurs, seek medical attention.

INGESTION: DO NOT INDUCE VOMITING. Contact a physician or Poison Control center immediately

VIII - SPILL OR LEAK PROCEDURE

Spill Management: Small spills, involving less than 10 gallons, may be flushed to a designated and permitted sewer system with copious amount of water. Larger spills should be contained and neutralized with sodium bisulfite or sodium thiosulfate (1.2 lbs neutralizer per each estimated lb. of spilled material) or disposed of as chemical waste in a manner indicated below. At no time should the spilled material be allowed to dry to a crystalline salt.

Waste Disposal Methods : Small quantities, less than 10 gallons, may be flushed to an authorized and designated sewer with copious amount of water.

IX - PROTECTION INFORMATION/CONTROL MEASURES

Respiratory: Fogging or spraying applications may require worker respiratory protection such as: NIOSH/MSHA approved air-purifying respirators or NIOSH/MSHA approved canister/cartridge facial respirators rated for chlorine/acid vapors or specified for chlorine dioxide.

Eye Protection: Use of chemical safety goggles for all applications involving chemical handling **Glove:** Rubber, neoprene or other chemically impervious gloves be worn for all applications

Other Clothing and Equipment : Protective clothing to minimize contact (boots, apron, faceshield)

Ventilation: Open air or good room ventilation is normally adequate for safe use of this product. Avoid breathing vapors or fumes

X - SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing :

Additional Information :

NFPA

Health Hazard.....: 1

Fire Hazard.....: 0

Reactivity.....: 1

Specific Hazard...:

HMIS RATING

Health Hazard.....:

Fire Hazard.....:

Reactivity.....:

Personal Protection...: X (Sec. 9)

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