

REC'D FEB 28 2000

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PRODUCT: EnviroCon™

MATERIAL SAFETY DATA SHEET

TRANSPORTATION EMERGENCY 24 HOUR TELEPHONE: (800) 424-9300 (CHEMTREC)

SECTION I: PRODUCT IDENTIFICATION

PRODUCT NAME: **EnviroCon™**
CHEMICAL FAMILY: Mixture of Oxychlorine Compounds
SYNONYMS: N/A CAS #: None (Mixture)

NFPA RATING: [with 0 for no hazard to 4 for life threatening]
Fire: 0 Health: 1 Reactivity: 1 Special: None

WARNING STATEMENT: Product may cause eye and skin irritation

EPA REGISTRATION NUMBER: 9804-3

REVISION DATE: June 1999
SUPERSEDES: January 1997

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT [CAS #]	PERCENT	OSHA ACGIH				OTHER
		PEL	TLV	STEL		
Sodium Chlorite [7758-19-2]	0.17 Minimum	NE	NE	NE	Irritant	
Chlorine Dioxide [10049-04-4]	Trace	0.1 PPM	0.1 PPM	0.3 PPM	SARA 313	
TOTAL	0.17					

NE = NOT ESTABLISHED NL = NOT LISTED
(C) = IDENTIFIED AS A CARCINOGEN BY OSHA,
IARC, NTP, OR ROTECS

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not classified as "Hazardous" per this OSHA Standard may be listed. The identity of other ingredients will be made available as provided in this standard.

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE AND ODOR: Clear liquid with very faint chlorinous odor

BOILING POINT: 213°F (100.5°C)
MELTING POINT: N/A

VAPOR PRESSURE: 23.7 mm Hg (25°C)
VAPOR DENSITY: 0.02 kg/m³

SPECIFIC GRAVITY: 1.01 g/ml (20°C)

VOLATILE ORGANIC COMPOUNDS: <0.01% by weight

OCTANOL/WATER PARTITION COEFFICIENT: NE

EVAPORATION RATE: Comparable to Water
SOLUBILITY IN WATER: Complete
pH, CONCENTRATE: 7.50 to 9.00

OTHER DISTINGUISHING CHARACTERISTICS: N/A

SECTION IV: FIRE AND EXPLOSIVE HAZARD INFORMATION

FLASH POINT: None to solution boiling point.
Method: N/A

FLAMMABLE LIMITS (% By Volume):
Lower: N/A Upper: N/A

AUTOIGNITION TEMPERATURE: N/E

DECOMPOSITION TEMPERATURE: N/E (For dry sodium chlorite: 180 - 200°C)

FIRE EXTINGUISHING MEDIA: Water unless contraindicated by other material involved in fire.

FIRE-FIGHTING EQUIPMENT: Standard protective gear.

SPECIAL FIRE-FIGHTING PROCEDURES: Do not allow EnviroCon™ solutions to evaporate to dryness.

UNUSUAL FIRE OR EXPLOSIVE HAZARDS: The sodium chlorite in dried EnviroCon™ solutions is a strong oxidizer, which supports combustion.

SECTION V: REACTIVITY DATA

STABILITY: Product is stable.

CONDITIONS TO AVOID: Avoid storing product under conditions in which it could evaporate to crystalline salt.

INCOMPATIBLE MATERIALS: 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 chlorine dioxide gas.

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HAZARDOUS POLYMERIZATION: Does not occur.

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SECTION VI: HEALTH HAZARD DATA

INGESTION: Rat Oral LD (50): 4,360 mg/kg. Ingestion may produce gastric discomfort, nausea, vomiting, and diarrhea. Intake of large quantities may produce methemoglobinemia.

EYE CONTACT: Based on rabbit studies, EnviroCon™ has been given an EPA Category III rating as a mild irritant. Exposure can produce slight irritation of conjunctiva, cornea, and eyelid.

SKIN CONTACT: Based on rabbit studies, EnviroCon™ is listed as "practically not an irritant". Prolonged exposure may produce localized irritation, contact dermatitis, mild erythema, and edema.

SKIN ABSORPTION: Highly unlikely to be absorbed through skin in toxic amounts. Rabbit Acute Dermal LD(50) > 2,020 mg/kg.

INHALATION: Acute Inhalation: LC (50) > 5.61 mg/l. Prolonged inhalation of fog or mist containing EnviroCon™ may be irritating to nose and throat.

SYSTEMIC AND OTHER EFFECTS: None known.

CHRONIC EXPOSURE EFFECTS: May cause localized irritation to areas exposed to product.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin disorders, such as dermal allergies and dermatitis.

CARCINOGENICITY: Active ingredients are not listed by ROTECS, OSHA, IARC, or NTP. No evidence to date implicating product as carcinogen or tumor promoter.

MUTAGENICITY: Though product active ingredient is a chemical oxidant, no evidence to date for mutagenicity from whole animal or *in vitro* studies.

REPRODUCTIVE EFFECTS: No known effects to date.

OTHER HEALTH HAZARDS/HEALTH EFFECTS: None known.

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SECTION VII: FIRST AID

TARGET ORGANS: Skin, eyes. For chlorine dioxide produced from activation: respiratory tract and exposed mucous membranes.

SYMPTOMS OF OVER-EXPOSURE: Skin and eye irritation. Exposure to chlorine dioxide from activation can produce coughing, sore throat, headache, and dizziness.

FIRST AID

SKIN CONTACT: 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.

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

INHALATION: Unactivated EnviroCon™ 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.

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

PLEASE NOTE: Above procedures are recommended as emergency first aid precautions only. They are not intended to replace or supplant the treatment advice of a physician or other authorized health care specialist.

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SECTION VIII: CONTROL MEASURES/PERSONAL PROTECTION EQUIPMENT

VENTILATION: Open air or good room ventilation is normally adequate for safe use of this product.

RESPIRATORY PROTECTION: In accordance with OSHA regulations (29 CFR 1910.134 and 29 CFR 1910.1000), fogging or spraying applications may require worker respiratory protection, such as: (1) NIOSH approved air-purifying respirators.

EYE PROTECTION: Good manufacturing practice recommends use of chemical safety goggles for all applications involving chemical handling.

PROTECTIVE CLOTHING: Good manufacturing practice recommends that, at a minimum, rubber, neoprene, or other chemically impervious gloves be worn for all applications involving chemical handling.

OTHER PROTECTIVE MEASURES: Follow label directions.

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SECTION IX: SPILL, LEAK, AND DISPOSAL PROCEDURES

SPILL OR LEAK PROCEDURE: Small spills, involving less than 10 gallons, may be flushed to a designated and permitted sewer system with copious amounts of water. Do not discharge this product to storm drains or to any surface or groundwater source unless specifically allowed under a valid NPDES permit.

DISPOSAL PROCEDURE: Small quantities, less than 10 gallons, may be flushed to an authorized and permitted sewer with copious amounts of water.

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SECTION X: SPECIAL PRECAUTIONS

PRODUCT STORAGE: Store in a cool, dry, well-ventilated location away from acids, chlorine and chlorine compounds, hypochlorites (bleach), organic solvents, sulfur and sulfite compounds, phosphorus, combustible/flammable materials, and direct sunlight. Keep containers tightly closed when not in use and open carefully to prevent spillage. Storage on wooden floors and pallets is not recommended.

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PRODUCT HANDLING: Use product only as directed by the label or by your authorized Bio-Cide representative. Avoid contact with skin and eyes; avoid breathing any vapors or fumes resulting from product activation. Keep away from children, animals, and unauthorized personnel.

OTHER PRECAUTIONS: Product may bleach clothing and fabric materials, such as draperies and carpets.

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SECTION XI: REGULATORY STATUS

Federal EPA Regulations

TSCA: All product ingredients are on inventory.

SARA TITLE 312/313: Neither the product nor its constituent ingredients are listed under SARA reporting requirements. Chlorine dioxide produced from activation is listed under SARA 313.

FIFRA: Envirocon is EPA registered (EPA No. 9804-3)

RCRA: Not considered a hazardous waste either categorically or by chemical listing.

CLEAN WATER ACT: Neither product nor constituent ingredients is listed as priority pollutant.

CLEAN AIR ACT: Neither product nor constituent ingredients is listed as priority pollutant.

Federal OSHA Regulations

Neither product nor constituent ingredients is classified as an acute or chronic health hazard by OSHA.

Federal Department of Transportation

Not regulated.

State Laws

CALIFORNIA: Not regulated under the provisions of Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986).

NEW JERSEY: Sodium Chlorite is listed under New Jersey's Chemical Inventory Notification Requirement (NJAC 7:1Z). Estimated release notification, however, is not required.

PLEASE NOTE: Regulatory requirements are subject to change and may vary from one location to another. It is the users responsibility to ensure compliance with all applicable federal, state, and local regulations pertaining to the purchase, transport, storage, use, and disposal of this product.

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The information contained in this Material Safety Data Sheet has been assembled by the manufacturer, based on its own studies and on research accomplished by others. The manufacturer gives this information without warranty, expressed or implied. The information contained herein is accurate as of the date posted, to the best knowledge of the manufacturer.