

MATERIAL SAFETY DATA SHEET

Complies With OSHA'S Hazard Communications Standard 29 CFR 1910.1200
IDENTITY(As Used on Label and List): TRANS ALL

SECTION I

Manufacturer's Name: Rich-Mar Corp. Emergency Telephone Number:
1-800-762-4665

Address: 15499 E 590TH RD Telephone Number for Information:
Inola, OK 74036-0879 1-800-762-4665

Date Prepared: 5-9-99 Preparer:
Chemical Analysis, Inc.
Irving, Texas

Product Description: Ultrasound Disinfectant Cleaning Solution

SECTION II Hazardous Ingredients/Identity Information

Hazardous Ingredients: NONE
Component Information: Chlorine Dioxide (0-0.06%)
Triclosan (0-0.02%)
SD-Alcohol (0-40%)

Toxicity Hazard: Slight
Fire Hazard: Slight
Reactivity Hazard: Insignificant
Special Hazard: NONE

Toxicity Information:

Acute Data: The following information is based on the toxicity of the most potentially hazardous components of this material.

Toxicity for Chlorine dioxide: Inhalation: Highly irritating.

Toxicity for Triclosan:

Oral LD50 (rat): 3700 mg/kg

Skin Id50 (rat): 9300 mg/kg

Oral LCLo (muskkrat): 4530 mg/kg

Reproductive/Teratology Data: No information available that indicates embryofetotoxic and teratogenic activity in laboratory animals.

SECTION III Physical/Chemical Characteristics

Boiling Point: 216 F Specific Gravity (H2O=1): 0.94
Vapor Pressure (mm Hg): 595mm of HS@20°C Melting Point: -10°C/14°F
Vapor Density (Air = 1): 3.6 Evaporation Rate (Butyl Acetate = 1): <1.0
Solubility in Water (25° C): Complete
Appearance and Odor: Clear, colorless liquid, slight odor
Viscosity: 35 cps @ 20 °C

SECTION IV Fire and Explosion Hazard Data

Flash Point (C): Nonflammable Flammable Limits: N/A LEL: N/A UEL: N/A

Extinguishing Media: Use the following extinguishing media when fighting fires involving this material: polar solvent foam, carbon dioxide, water spray, and dry chemical.

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: Vapors can travel to a source of ignition and flash back. Heated material can form flammable or explosive vapors with air. Toxic fumes are generated when material is exposed to fire and fire conditions.

Personal Protective Equipment: Wear self-contained breathing apparatus and full protective gear.

SECTION V Reactivity Data

Stability Unstable: No Conditions to Avoid: Contact with ignition sources
Stable: Yes

Incompatibility (Materials to Avoid): Strong oxidizing agents

Hazardous Decomposition or Byproducts: Thermal decomposition may yield toxic decomposition products.

Hazardous May Occur: No Conditions to Avoid: None
Polymerization Will Not Occur: Yes

Exposure Information:

<u>Component/ppm</u>	<u>OSHA TWA</u>	<u>OSHA STEL</u>	<u>ACGIH TWA</u>	<u>ACGIH STEL</u>	<u>IDLH</u>
Chlorine dioxide	0.10	0.30	0.10	0.30	10
Triclosan	100	ND	100	ND	
SD-Alcohol	1000	ND	ND	ND	

TRANS ALL

SECTION VI Health Hazard Data

Route(s) of Entry Inhalation: N/A Skin: N/A Ingestion: Small Quantity No Hazard Eyes: Yes

Health Hazards (Acute and Chronic): N/A

Carcinogenicity: NTP:N/A IARC Monographs:N/A OSHA Regulated:N/A

Signs and Symptoms of Exposure: N/A

Medical Conditions Generally Aggravated by Exposure: N/A

Emergency and First Aid Procedures: Handle as gelled water

-Inhalation: N/A

-Eyes: Flush with copious quantities of water for 15 minutes. Call a physician.

-Ingestion: In case of gross ingestion, give large quantities of water. Do NOT induce vomiting. Call a physician.

-Skin: Wash affected areas with soap and water.

SECTION VII Precautions for Safe Handling

Steps to be Taken in Case Material is Released or Spilled: Wipe up small spills with cloth and rinse floor with warm soapy water. Large spills; floors will become slippery. Avoid falling. Scoop up material in waste containers, then wash down floor with warm soapy water.

Waste Disposal Method: Land fill per local, state, and federal regulations.

Precautions to be Taken in Handling and Storing: Product poses no danger. Store in original containers at room temperature to protect product.

Other Precautions: Containers are hazardous when empty. Since emptied containers retain product residue, follow all MSDS and label warnings even after container is emptied. Vapors in empty containers may explode on ignition. Do not cut, drill, grind, or weld on or near container.

Storage Conditions: Store away from excessive heat, sources of ignition, and from reactive materials. Ground all metal containers during storage and handling. The minimum recommended storage temperature for this material is -18C/0F. The maximum storage temperature is 49C/120F.

Waste Disposal Procedure: For disposal, incinerate this material at a facility that complies with local, state, and federal regulations.

SECTION VIII Control Measures

Respiratory Protection (Specify Type): None required if airborne concentrations are maintained below the TWA/TLV's listed in Section V.

Up to 10 times the TWA/TLV: Wear a half-mask, air purifying respirator.

Up to 1000 ppm organic vapor: Wear an approved full-facepiece, air-purifying respirator.

Above 1000 ppm organic vapor or unknown: Wear an approved positive pressure mode, or an approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Air purifying respirators should be equipped with organic vapor cartridges.

Ventilation

Local Exhaust: Not Required

Special: Use explosion-proof local exhaust ventilation with a minimum capture velocity of 100 ft/min (0.5 m/sec) at the point of vapor evolution.

Mechanical (General): Not Required

Other: None

Protective Gloves: Gloves may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection: Polyvinyl alcohol and Viton. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Eye Protection: Use chemical splash goggles and face shield.

Other Protective Clothing or Equipment: Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact. Facilities storing and utilizing this material should be equipped with an eyewash facility and a safety shower.

Work/Hygienic Practices: Normal

SECTION IV Spill or Leak Handling Information:

Personal Protection: Appropriate protective equipment must be worn when handling a large spill of this material. See Control Measures section for recommendations. If exposed to material during clean-up operations, see the Health Hazard Data section for actions to follow.

Procedures: Evacuate the spill area. Eliminate all ignition sources. Floor may be slippery; use care to avoid falling. Ventilate the spill area. Avoid breathing vapor. Contain spills immediately with inert materials. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Note: Spills on porous surfaces can contaminate groundwater.

SECTION X Hazard Information

Health Effects from Overexposure:

Primary Routes of Exposure: Inhalation, Eye contact, Skin contact, Dermal absorption.

Inhalation: Inhalation of vapors or mist can cause the following: Irritation of the nose, throat, and lungs, as well as headaches, nausea, vomiting, dizziness, drowsiness, fatigue, loss of coordination, and unconsciousness. Inhalation of vapor or mist in high concentrations can cause the following: coma and death.

Eye Contact: Material can cause the following: severe irritation and corneal clouding.

Skin Contact: Material can cause the following: moderate skin irritation, defatting and drying of the skin which can lead to irritation and dermatitis. This material may be absorbed through the skin.

Ingestion: Material is harmful if swallowed. Material can cause the following: gastrointestinal irritation, nausea, vertigo, dizziness, staggered gait, vomiting, bronchitis, pulmonary edema, chronic bronchitis, and diarrhea.

Delayed Effects: Prolonged and repeated overexposure to product can cause the following: irritation of the respiratory tract, kidney effects, liver dysfunction, and cardiac sensitization.

SECTION XI Workplace Classification

This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

This product is a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

Transportation Classification: USA DOT Hazard Classification: Non-Flammable Liquid

Emergency Planning and Community Right-to-Know (SARA Title 3)

Section 311/312 Categorizations (40 CFR 370):

This product is a hazardous chemical under 29 CFR 1910.1200, and is categorized as an immediate and delayed health, and flammability physical hazard.

Section 313 Information (40 CFR 372):

This product does not contain a chemical which is listed in Section 313 at or above de minimus concentrations.

CERCLA Information (40 CFR 302.4)

This material does not have a component or components with a reportable quantity under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. Spills of a component in excess of its reportable quantity are to be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations.

RCRA Information

When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste with the characteristic of ignitability and toxicity, hazardous waste numbers: D001.

Chemical Control Law Status

All components of this product are listed or are excluded from listing on the US Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

State Right-to-Know Laws

Any material listed as "Not Hazardous" in the CAS REG NO column of the component information section of the MSDS is trade secret under the provisions of the Texas statutes.

California Proposition 65

This product does not contain a component(s) known to the state of California to cause birth defects or other reproductive harm. This product does not contain a component(s) known to the state of California to cause cancer.