



MATERIAL SAFETY DATA SHEET

Product Name: Ram Tri-Coppercide

4949 Greenhouse Road Houston, TX 77084-2205 281/856-7600 - 800/456-3459 - Fax 281/856-7015

I - PRODUCT IDENTIFICATION

Product: Clor Mor Copper Algicide
Chemical Family: A solution of a copper triethanolamine complex in water
Formula: Not applicable – mixture
CAS Number: 41121-61-3
Synonyms:

24 HR EMERGENCY TELEPHONE NUMBER
INFOTRAC (Transportation): (800)535-5053

II – COMPOSITION, INFORMATION ON INGREDIENTS

Chemical or Common Name:	Exposure Limits	
	OSHA PEL	ACGIH TLV:
Triethanolamine complex with copper sulfate	50-60%	NE
Water	40-50%	NE

III – HAZARDS IDENTIFICATION

WARNING STATEMENTS AND WARNING PROPERTIES:
Do not take internally. May be harmful if swallowed or absorbed through the skin.
Causes eye and mucous membrane irritation. May cause skin irritation. May cause respiratory irritation.
Human threshold response data
Odor threshold: No data
Irritation threshold: No data
Immediately dangerous to life or health: The IDLH concentration has not been established for this product.

Primary Route(s) of Entry:

Ingestion: (X)

Inhalation: (X)

Skin Contact: (X)

Eye Contact: (X)

Carcinogenity Listings:

OSHA: ()

NTP: ()

IARC: ()

Primary Health Hazards (Acute and Chronic): see below

Signs & Symptoms of Exposure:

Acute Ingestion: Ingestion may cause gastrointestinal discomfort with any or all of the following symptoms: Nausea, vomiting, lethargy or diarrhea.

Chronic: There are no known or reported effects from chronic exposure except for effects similar to those experienced from single exposure.

Acute Inhalation: If inhaled, may cause irritation to the throat, mucous membranes, upper respiratory tract, and lungs. Any irritation would be expected to be transient with no permanent damage expected.

Chronic: No effects would be expected except for those listed under acute inhalation exposure

Acute Skin Contact: Skin contact may cause an irritation consisting of transient redness. This irritant effect would not be expected to result in permanent damage.

Chronic: There are no known or reported effects from chronic exposure for effects similar to those experienced from single exposure

Eye Contact: Contact with the eyes would be expected to cause an irritation consisting of redness, swelling and mucous membrane discharge to the conjunctiva. No corneal damage or visual impairment would be expected to occur.

Medical conditions aggravated by exposure: None known or reported.

Interactions with other chemicals which enhance toxicity: None known or reported.

IV – FIRST AID MEASURES

Emergency and First Aid Procedures:

Ingestion: Immediately drink large quantities of water. Induce vomiting. Call a physician at once. DO NOT give anything by mouth if the person is unconscious or if having convulsions.

Inhalation: If person experiences nausea, headache, or dizziness, person should stop work immediately and move to fresh air until these symptoms disappear. If breathing is difficult, administer oxygen, keep the person warm and at rest. Call a physician. In the event that an individual inhales enough product to lose consciousness, person should be moved to fresh air at once and a physician should be called immediately. If breathing has stopped, artificial respiration should be given immediately. In all cases, ensure adequate ventilation and provide respiratory protection before the person returns to work.

Skin Contact: Immediately flush with water for fifteen minutes. Wash the contaminated skin with soap and water. If irritation develops, call a physician. If clothing comes in contact with the products, the clothing should be laundered before reuse.

Eye Contact: Immediately flush with large amounts of water for at least fifteen minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician.

V – FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD DATA

Flash Point: None

Auto-ignition Temperature: Not applicable

Flammable Limits:

LEL: Not applicable

UEL: Not applicable

Extinguishing Media: Not applicable. Choose extinguishing media suitable for surrounding materials.

Special Fire-fighting Procedures: This product would not be expected to burn unless all the water is boiled away. The remaining organic compounds may be ignitable. Use water to cool containers exposed to fire. Additional respiratory protection is necessary when a spill or accident involving this product occurs. You are recommended to use a NIOSH/MSHA approved positive pressure supplied-air respirator. Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to: boots, gloves, splash-proof goggles.

Unusual Fire and Explosion Hazards:

Flammability Data:

Explosive: No

Flammable: No

Combustible: No

Pyrophoric: No

VI – ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is spilled or released:

For all transportation accidents, CALL INFOTRAC at 1-(800)-535-5053.

Evacuate all non-essential personnel. Stop source of spill as soon as possible and notify appropriate personnel.

Air Release: Vapors may be suppressed by the use of a water fog or spray.

Contain all liquid for treatment or neutralization.

Water Release: This material is heavier than and miscible with water. Divert water flow around spill if possible and safe to do so. If unable to divert, create a dam to contain material. Continue to handle as described in land spill.

Land Spill: Create a dike or trench to contain materials. Spill materials may be absorbed using sand, clay or commercial absorbent. Do not place spill materials back in their original containers. Containerize and label all spill materials

properly. Decontaminate all clothing and the spill area using a soap solution and flush with large amounts of water.

Spill Residues: Dispose of per guidelines under Waste Disposal Method.

Personal Protection for Emergency Spill and Fire-Fighting Situations: Additional respiratory protection is necessary when a spill or accident involving this product occurs. You are recommended to use a NIOSH/MSHA approved positive pressure supplied-air respirator. Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to: boots, gloves, splash-proof goggles.

VII – HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storage: Store in a cool, dry, well-ventilated area. Do not store at temperatures above 100°C (212°F)

Other Precautions: Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water.

Shelf life limitations: 1-2 years under normal storage conditions.

Incompatible materials for storage or transport: Oxidizers

VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: Respirator protection not normally needed. If vapors, mists, or aerosols are generated, wear a NIOSH/MSHA approved respirator.

Ventilation:

Local Exhaust: recommended if vapors, mists, or aerosols are generated, otherwise, use general exhaust ventilation.

Mechanical Exhaust:

Other Protective Clothing or Equipment: Equipment Specifications (when applicable):

Respirator Type: NIOSH/MSHA approved organic vapor plus dust/mist filter.

Protective Clothing Type: Impervious: This includes" gloves, boots, apron, protective suit.

Skin and Eye Protective Equipment: Use chemical goggles and impermeable gloves.

Work/ Hygienic Practices:

IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 100°C (212°F)

Vapor Pressure (@ 25°C): No data

Vapor Density (Air=1): No data

Solubility in Water: Miscible

Appearance and odor: Clear Blue Liquid – no odor

Specific Gravity (H₂O=1): 1.3

Percent volatile by volume: 50%

Melting Point:

Evaporation Rate: No data

Freezing Point: 0°C (32°F)

XII – ECOLOGICAL INFORMATION

Aquatic Toxicity: No data

Avian Toxicity:

ENVIRONMENTAL HAZARDS (PR Notice 93-10)

This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water board or Regional Office of the EPA.

XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method: If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D.

As a non-hazardous liquid waste, it should be disposed of in accordance with local, state, and federal regulations by treatment to remove copper.

XIV - TRANSPORTATION DATA

U.S. Department of Transportation - 49 CFR

Not Regulated

Proper Shipping Name:

Hazard Class/Division Number:

ID Number:

Packing Group:

Label Required:

Placard Required:

Marine Pollutant:

International Maritime Organization - IMDG

Not Regulated

Proper Shipping Name:

Hazard Class/Division Number:

ID Number:

Packing Group:
Label Required:
Placard Required:
Marine Pollutant:

XV - REGULATORY INFORMATION

This chemical appears on the following lists:

- (X) SARA Section 313: Supplier Notification Requirements, Per 40 CFR 372.45:
This mixture or trade name product contains a toxic chemical or chemical s
subject to the reporting requirements of Section 313 of Title III of the Superfund
Amendments and Reauthorization Act of 1986 and 40 CFR 372.
Chemicals Listed are: Triethanolamine complex with copper Sulfate (Copper
compounds)
 - (X) TSCA: This product is regulated under the Federal insecticide, Fungicide and
Rodenticide Act. The only registered use is in an algaecide. A component of this
product is not listed on the toxic Substance Control Act inventory.
- OSHA Hazard Classification: Eye, Skin, and respiratory irritant
SARA Title III Hazard Categorized, per 40 CR 370.2:
Health: Immediate (Acute)
Physical: None
- Emergency Planning and Community Right to Know, Per 40 CFR 355, APP.A:
Extremely Hazardous Substance – Threshold Planning Quantity: None established

XVI - ADDITIONAL INFORMATION

This MSDS replaces the 12/16/1996 version. Any changes in information are as follows:
In Section I - 24 hr emergency telephone number

**ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL,
STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION,
STORAGE, USE AND DISPOSAL OF THIS CHEMICAL.**

Due to the changing nature of regulatory requirements, the REGULATORY
INFORMATION listed in Section XV of this document should NOT be considered all-
inclusive or authoritative. International, Federal, State and Local regulations should be
consulted to determine compliance with all required reporting requirements.

The information in this MSDS was obtained from sources, which we believe are reliable.
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may be beyond our knowledge. **FOR THIS AND OTHER REASONS, WE DO NOT
ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR
LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY**

CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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