

**MATERIAL SAFETY DATA SHEET****SECTION 1 CHEMICAL PRODUCT AND COMPANY INFORMATION**

Product Name: Hydro-Cide Algaecide  
 Product Number(s): H-701, H-705, H-755  
 U.S. EPA: Reg. No. 1448-62-40536, Est. No. 40536-TX-1  
 Product Use: Broad spectrum microbiocide for cooling water systems  
 Company Name: North American Research Corporation  
 P.O. Box 1318  
 Lewisville, TX 75067

Date Prepared Mar. 28, 2005  
 Replaces Mar. 31, 2003

Telephone Numbers: (972) 492-1800, (800) 527-7520, Fax (972) 394-6755  
 Emergencies: Infotrac (800) 535-5053 (24 hours, everyday)

**SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS**

	CAS Registry No.	OSHA PEL	ACGIH TLV	Other Limits	% (Optional)
Poly[oxyethylene(dimethylimino)ethylene(dimethylimino)ethylene dichloride]	31512-74-0	Not established	Not Established	None	20

**SECTION 3 HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW:**

CAUTION: Harmful if swallowed. Avoid breathing vapors. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

**POTENTIAL HEALTH EFFECTS**

EYE CONTACT: May be irritating to eyes.

SKIN CONTACT: May be moderately irritating to the skin.

INHALATION: Not expected to be an inhalation hazard during normal use.

INGESTION: May be irritating to the mouth, throat, and stomach.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known other than existing skin disorders.

CARCINOGENICITY: NTP? No IARC Monographs? No OSHA Regulated? No

**SECTION 4 FIRST-AID MEASURES**

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**SECTION 5 FIRE-FIGHTING MEASURES**

FLASHPOINT: >100°C (212°F) METHOD: Pensky-Martens Closed Cup

FLAMMABLE LIMITS: LEL: Not applicable UEL: Not applicable

AUTOIGNITION TEMP: Not applicable

FIRE EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire-exposed containers cool.

SPECIAL INFORMATION: None known.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS: Put on appropriate personal protective equipment.

Leaking or damaged containers should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of waste. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of the 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 into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**SECTION 7 STORAGE AND HANDLING**

Do not contaminate water, food, or feed by storage or disposal. PESTICIDE STORAGE: Do not stack more than 4 containers high. Leaking or damaged containers should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep containers closed when not in use. HANDLING: For Industrial Use Only. Avoid skin and eye contact. Wash thoroughly after handling, before eating or drinking, and before using the restroom. KEEP OUT OF REACH OF CHILDREN. Store in closed, properly labeled, original containers. Do not remove or deface label.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

EXPOSURE CONTROLS: No special ventilation requirements. General room ventilation is adequate.

PERSONAL PROTECTION:

EYES: Safety glasses with side shields. HANDS: Gloves; rubber, neoprene, or other impervious material.

RESPIRATORY: No special requirements. FEET: No special requirements.

BODY: If major exposure is possible, wear suitable, impervious protective clothing.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR: Clear to pail straw liquid. Bland odor.

SPECIFIC GRAVITY: 1.044

VAPOR PRESSURE: Not determined

VAPOR DENSITY: Not determined

SOLUBILITY IN WATER: Complete

pH: 6 (neat), 6-7@100 ppm in water

BOILING POINT: >100°C (212°F)

FREEZING / MELTING POINT: Not Determined

EVAPORATION RATE (Butyl Acetate = 1): Not determined

**SECTION 10 STABILITY AND REACTIVITY**

STABILITY: Stable

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (Materials to Avoid): None known.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

**SECTION 11 TOXICOLOGICAL INFORMATION**

Oral LD<sub>50</sub> = 3700 mg/kg Rat

Dermal LD<sub>50</sub> = >2000 mg/kg Rabbit

Inhalation LC<sub>50</sub> = >26.4 mg/l (4 hours) Rat

**SECTION 12 ECOLOGICAL INFORMATION**

No information available.

**SECTION 13 DISPOSAL CONSIDERATIONS**

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: PLASTIC: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. METAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**SECTION 14 TRANSPORT INFORMATION**

U.S. Department of Transportation: Not regulated.

**SECTION 15 REGULATORY INFORMATION**

TSCA: All components may not be listed on the TSCA inventory. Registered pesticides are exempt from the requirements of TSCA.

CERCLA: No reportable ingredients

SARA TITLE III:

Section 311/312 Hazard Category: Acute: Yes Chronic: No Fire: No Pressure: No Reactive Hazard: No

Section 313 Reportable Ingredients: None

**SECTION 16 OTHER INFORMATION**

NFPA RATING: Health – 1, Flammability – 1, Reactivity – 0

HMIS<sup>®</sup> RATING: Health – 1, Flammability – 1, Reactivity – 0

HMIS<sup>®</sup> ratings are to be used with a fully implemented HMIS<sup>®</sup> program. HMIS<sup>®</sup> is a registered mark of the National Paint and Coatings Association (NPCA).

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