

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

Warehouse

IDENTITY AND MANUFACTURER'S INFORMATION	
NFPA Rating: Health-3; Flammability-0; Reactivity-0; Special- - Manufacturer's Name: AMREP, INC. Address: 990 Industrial Park Drive Marietta, GA 30062	HMIS Rating: Health-3; Flammability-0; Reactivity-0; Personal Protection-B DOT Hazard Classification: Corrosive Material 8 Identity (trade name as used on label): MISTY DESCALER TWO
Date Prepared: 06/10/93 Prepared By: ES/RC	MSDS Number: WT 316 Revision: - 7
Information Calls: (770)422-2071 EMERGENCY RESPONSE NUMBER: 1(800)255-3924	NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
HYDROGEN CHLORIDE	7647-01-0	Yes	5	5	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS	
Boiling Point: >212 °F Vapor Pressure: PSIG @ 70°F (Aerosols): N/A Vapor Density (Air = 1): N/A Solubility in Water: Total Appearance and Odor: Clear, amber fluid with chlorine odor.	Specific Gravity (H2O=1): 1.06-1.08 Vapor Pressure (Non-Aerosols)(mm Hg and Temperature) 75°F: 26m Evaporation Rate (water = 1): 1.0 Water Reactive: No

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA		
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) NA	Auto Ignition Temperature: N/A	Flammability Limits in Air by % in Volume: % LEL: N/A %UEL: N/A
FLASH POINT AND METHOD USED (non-aerosols): None		EXTINGUISHER MEDIA: Non-combustible
SPECIAL FIRE FIGHTING PROCEDURES: None		
Unusual Fire & Explosion Hazards: Avoid exposure to metals, oxidants which might produce flammable hydrogen gas.		

SECTION 4 - REACTIVITY HAZARD DATA	
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE Incompatibility (Mat. to avoid): Bases, metals, mercuric sulfate, carbides of Ca, Cs, Rb.	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR Conditions to Avoid: Contact with strong bases can cause violent reaction generating large amounts of heat.
Hazardous Decomposition Products: Hydrogen gas.	

SECTION 5 - HEALTH HAZARD DATA
PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS

ACUTE EFFECTS Inhalation: Irritant causing burning, choking, coughing, headaches. Eye Contact: Irritation, severe burns & permanent damage including blindness. Skin Contact: Burning, irritation and dermatitis. Ingestion: Unlikely route, causes severe burns to internal organs.
CHRONIC EFFECTS: None known. Medical Conditions Generally Aggravated by Exposure: Skin, eye, mucous membrane irritation.

EMERGENCY FIRST AID PROCEDURES
Eye Contact: Flush with water for 15 minutes. Get medical attention. Skin Contact: Remove contaminated clothing. Wash with water for 15 minutes. Inhalation: Remove to fresh air. Get medical attention. Ingestion: DO NOT INDUCE VOMITING. Drink large quantity of water. Get immediate medical attention.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES
Respiratory Protection (specify type): Approved self-contained breathing apparatus when air concentrations exceed 100 ppm HCL vapors. Protective Gloves: Neoprene Eye Protection: Chemical goggles and/or face shield. Ventilation Requirements: As necessary to maintain HCL vapors below 5 ppm at all times. Other Protective Clothing & Equipment: Neoprene or PVC rain suit & boots in case of fire. Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash hands after handling.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE
Steps To Be Taken If Material Is Spilled Or Released: Contain fluid by diking. Neutralize with soda ash or diluted caustic soda. Waste Disposal Methods: Wash neutralized material down the sewer. Precautions To Be Taken In Handling & Storage: Store in original container or acid-resistant containers. Keep container sealed when not in use. Shelf life one year. Store in cool, bare metal free area. Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read and follow label directions. Do not store near strong alkalis or other reactive metals.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.
 ** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only