

AME R 589

MATERIAL SAFETY DATA SHEET

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

IDENTITY AND MANUFACTURER'S INFORMATION	
NFPA Rating: Health-2; Flammability-0; Reactivity-0; Special- - Manufacturer's Name: AMREP, INC. Address: 990 Industrial Park Drive Marietta, GA 30062	HMIS Rating: Health-2; Flammability-0; Reactivity-0; Personal Protection-F DOT Hazard Classification: NON-REGULATED Identity (trade name as used on label): MISTY WEEDTROL CF
Date Prepared: 02/07/03 Prepared By: RC/IB Information Calls: (770)422-2071 EMERGENCY RESPONSE NUMBER: 1(800)255-3924	MSDS Number: B00589 Revision - 1 NOTICE: JUDGMENT 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 **
DIQUAT DIBROMIDE	85-00-7	No	N/E	0.5mg/m3	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS	
Boiling Point: 100°C	Specific Gravity (H2O=1): 1.02
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A	Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A
Vapor Density (Air = 1): N/A	Evaporation Rate (= 1): N/A
Solubility in Water: Miscible	Water Reactive: No
Appearance and Odor: Opaque, dark brown, non-viscous, water-based liquid with no odor.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA		
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A	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): N/A EXTINGUISHER MEDIA: CO2, dry chemical, foam, water spray.	SPECIAL FIRE FIGHTING PROCEDURES: Avoid breathing smoke & mists. Avoid contact with fallout & run off. Minimize amount of water used for fire -fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing apparatus. Contain & isolate runoff & debris for proper disposal.	
Unusual Fire & Explosion Hazards: Fires involving this material may emit toxic smoke and vapors.		

SECTION 4 - REACTIVITY HAZARD DATA	
STABILITY [X] STABLE [] UNSTABLE Incompatibility (Mat. to avoid): Strong alkalis, anionic surfactants.	HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR Conditions to Avoid: None
Hazardous Decomposition Products: Toxic bromine compounds, oxides of nitrogen, unidentified organics.	

SECTION 5 - HEALTH HAZARD DATA	
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTION [X] SKIN ABSORPTION [X] EYE [] NOT HAZARDOUS	

ACUTE EFFECTS	
Inhalation: Breathing spray mist may cause nasal, throat & respiratory tract irritation, nose bleed, sore throat & coughing. Systemic toxicity following inhalation has not been reported in humans. Acute LC50 (rat) for a one hour exposure was less than 6.1 mg/liter.	
Eye Contact: May cause moderate eye irritation. Longer exposure may cause more severe irritation. Could cause prolonged (weeks) impairment of vision following eye contact.	Skin Contact: May cause mild irritation with short term contact. Prolonged contact may increase danger of absorption. Acute dermal LD50 (rabbit) was 260-315 mg/kg. Prolonged and repeated contact could result in systematic poisoning.
Ingestion: May cause irritation to the mucosa of mouth, throat, esophagus & stomach followed by vomiting, restlessness and hyper excitability. Product is considered "slightly toxic" by ingestion.	
CHRONIC EFFECTS: Prolonged and repeated contact with skin could result in systemic poisoning.	
Medical Conditions Generally Aggravated by Exposure: Dermatitis, sinusitis, bronchitis, conjunctivitis.	

EMERGENCY FIRST AID PROCEDURES	
Eye Contact: Flush with water for 15 minutes. Get medical attention.	
Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and water. If rash or burning occurs, get medical attention. Wash contaminated clothing before reuse.	
Inhalation: Remove to fresh air. If respiratory irritation occurs, get medical attention.	
Ingestion: IMMEDIATELY give water or milk to drink and induce vomiting by inserting finger in throat. Get immediate medical attention. PROMPT TREATMENT IS ESSENTIAL TO COUNTERACT POISONING and should be initiated before signs and symptoms of injury appear.	

SECTION 6 - CONTROL AND PROTECTIVE MEASURES	
Respiratory Protection (specify type): Not normally needed; however, if airborne concentrations exceed exposure standard or if misting is such that inhalation could occur, use approved pesticide cartridge respirator.	
Protective Gloves: Chemical resistant gloves (nitrile, butyl, neoprene and/or barrier laminate).	Eye Protection: Chemical goggles. DO NOT get in eyes.
Ventilation Requirements: Use ventilation adequate to keep airborne concentrations below the exposure standard.	
Other Protective Clothing & Equipment: Coveralls over long sleeved shirt and long pants and chemical resistant footwear plus socks. Chemical resistant headgear if overhead exposure could occur. Eyewash station & safety shower.	
Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash hands after handling. See label for other recommendations.	

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps To Be Taken If Material Is Spilled Or Released: Clean up immediately. Do not allow run-off to sewers, ground or surface waters. Soak up spill in absorbent such as clay or loam soil. Place in properly labeled, sealed, non-leaking containers for proper disposal. Contaminated materials may be hazardous.	
Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.	
Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Protect from extreme heat and cold.	
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.	

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



TECHNICAL DATA SHEET

Product Name: *(see below)*

Item Number: B00589

Description: This herbicide can be used to kill above ground weed growth around buildings and other installations, ornamental gardens, walkways, patios, beneath greenhouse benches, fence lines, golf courses, parkways and driveways for control of undesirable broadleaved and grassy weeds. As an aquatic herbicide, this product may be used to control floating weeds, submerged weeds, and marginal weeds infesting the edges of ponds, lakes, and ditches. (Note: It is a violation of federal law to use this product in a manner inconsistent with its labeling. See product label copy for specific information.)

WARNING: Causes skin irritation. Harmful if swallowed or absorbed through skin or inhaled. Do not get on skin or clothing. Avoid contact with eyes. Avoid breathing spray mist. **PERSONAL PROTECTIVE EQUIPMENT (PPE):** Applicators and other handlers must wear: - Coveralls over long-sleeved shirt and long pants - Chemical resistant gloves (such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate) - Chemical resistant footwear plus socks - Chemical resistant headgear for overhead exposure - Chemical resistant apron when cleaning equipment, mixing or loading - A dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any R, P, or HE filter. **USER SAFETY REQUIREMENTS:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. When handlers use closed systems or enclosed cabs, in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS. **USER SAFETY RECOMMENDATIONS:** - Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. - Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. - Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separately from other laundry. - Users should wash hands before eating, drinking, chewing gum, using tobacco or using toilet. **FIRST AID: IF ON SKIN:** 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. **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 by a poison control center or doctor. **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 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. Call a poison control center or doctor for treatment advice. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Have the product container label with you when calling a poison control center or doctor or going for treatment. **ENVIRONMENTAL HAZARDS (TERRESTRIAL AND AQUATIC USES):** This pesticide is toxic to aquatic invertebrates. Do not apply to water except as specified on this label. **For Terrestrial Uses:** Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. **For Aquatic Uses:** Do not apply directly to water except as specified on this label. **Container Disposal:** See product label copy for specific information.

Spill Or Leakage Procedures: Clean up immediately. Do not allow run-off to sewers, ground or surface waters. Soak up spill in absorbent such as clay or loam soil. Place in properly labeled, sealed, non-leaking containers for proper disposal. Contaminated materials may be hazardous.

Product Specifications:

EPA Reg. No:	10807-202 *
Active Ingredients:	<i>Diquat dibromide</i> [6,7-dihydrodipyrido (1,2-a:2',1'-c) pyrazinediium dibromide]: 4.35%
Inert Ingredients:	95.65%
Classification:	Liquid Herbicide
General Appearance:	Opaque Liquid
Color:	Dark brown
Odor:	None
Lbs./gal:	8.55
Flash Point:	N/A

HMIS RATING: Health-2; Flammability-0; Reactivity-0; Personal Protection-F.

*Current name *Contact Vegetation Controller*. Amendment submitted to EPA for product name change to *Misty Weedtrol CF* 02/03

Manufactured by:



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