

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-3; Flammability-0; Reactivity-0; Special- COR | | | HMIS Rating: Health-3; Flammability-0; Reactivity-1; Personal Protection-C,D | | | |
| Manufacturer's Name: Amrep, Inc. | | | DOT Hazard Classification: Sulfuric Acid 8 | | | |
| Address: 990 Industrial Park Dr. | | | Identity (trade name as used on label): | | | |
| Address: Marietta, GA 30062 | | | MISTY LIQUIDATE | | | |
| Date Prepared: 07/20/99 | | Prepared By: ESIB | | MSDS Number: R 990 Revision - 9 | | |
| Information Calls: (770)422-2071 | | | NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA | | | |
| EMERGENCY RESPONSE NUMBER: 1-800-255-3924 | | | | | | |
| 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 ** |
| SULFURIC ACID | | 7664-93-9 | Yes | 1mg/M3 | 1mg/M3 | d |
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| SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS | | | | | | |
| Boiling Point: 338°C | | | Specific Gravity (H ₂ O=1): 1.835 | | | |
| Vapor Pressure: PSIG @ 70°F (Aerosols): N/A | | | Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): 0.0038 mm/Hg at 20°C | | | |
| Vapor Density (Air = 1): 3.38 | | | Evaporation Rate (= 1): N/A | | | |
| Solubility in Water: Complete | | | Water Reactive: Violently | | | |
| Appearance and Odor: Colorless, clear to cloudy liquid with no odor to mild acrid 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): None | | | SPECIAL FIRE FIGHTING PROCEDURES: Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire. DO NOT allow water to enter containers. Violent reaction results. | | | |
| EXTINGUISHER MEDIA: CO2 or dry chemical. Use water fog to knock down vapors. | | | | | | |
| Unusual Fire & Explosion Hazards: Solutions in contact with metals form hydrogen. | | | | | | |
| SECTION 4 - REACTIVITY HAZARD DATA | | | | | | |
| STABILITY [X] STABLE [] UNSTABLE | | | HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR | | | |
| Incompatibility (Mat. to avoid): Solvents, oxidizers, reducing agents, combustible materials, organic materials, alkalis, powdered metals, amines, carbides, fulminates, chlorates, nitrates, picrates. | | | Conditions to Avoid: Heating. Water on sulfuric acid will cause splattering, fuming and evolution of heat. | | | |
| Hazardous Decomposition Products: Oxides of sulfur. Hydrogen may be evolved in contact with metal. | | | | | | |
| SECTION 5 - HEALTH HAZARD DATA | | | | | | |
| PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTION [X] SKIN ABSORPTION [] EYE [] NOT HAZARDOUS | | | | | | |
| ACUTE EFFECTS: Burns, rapid destruction of all tissue contacted. | | | | | | |
| Inhalation: May cause respiratory irritation. Liquid is corrosive. | | | | | | |
| Eye Contact: Corrosive. | | | Skin Contact: Corrosive. | | | |
| Ingestion: Corrosive. | | | | | | |
| CHRONIC EFFECTS: Dermatitis or secondary effects of burns, chronic over-exposure may cause tooth erosion, chronic cough. | | | | | | |
| Medical Conditions Generally Aggravated by Exposure: N/A | | | | | | |
| EMERGENCY FIRST AID PROCEDURES | | | | | | |
| Eye Contact: Flush with water for 15 minutes. Seek medical attention. | | | | | | |
| Skin Contact: Flush with water for 15 minutes. Seek medical attention. | | | | | | |
| Inhalation: Remove victim to fresh air. Get medical attention. | | | | | | |
| Ingestion: DO NOT INDUCE VOMITING. Drink large volumes of water. Get immediate medical attention. | | | | | | |
| SECTION 6 - CONTROL AND PROTECTIVE MEASURES | | | | | | |
| Respiratory Protection (specify type): Not needed in normal use and handling of product. | | | | | | |
| Protective Gloves: Rubber | | | Eye Protection: Chemical goggles and faceshield. | | | |
| Ventilation Requirements: Normal room ventilation is usually adequate. As required to keep air concentration below PEL. | | | | | | |
| Other Protective Clothing & Equipment: Coveralls, rubber apron and boots. Eyewash station and safety shower. | | | | | | |
| Hygienic Work Practices: Avoid contact with liquid & breathing of mists or vapors. Upon contact with eyes or skin, wash off with water immediately. | | | | | | |
| SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE | | | | | | |
| Steps To Be Taken If Material Is Spilled Or Released: Dike spill & soak up with inert absorbent. Shovel or sweep & place in properly labeled approved DOT container & seal for disposal in authorized legal manner. Neutralize area with soda ash & dispose of material properly. | | | | | | |
| Waste Disposal Methods: Dispose of material according to local, state or federal regulations. | | | | | | |
| Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Follow label directions when using. Shelf life one year. | | | | | | |
| Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. | | | | | | |

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