

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-3; Reactivity-0; Special- -- Manufacturer's Name: AMREP, INC. Address: 990 Industrial Park Drive Marietta, GA 30062 | HMSIS Rating: Health-2; Flammability-3; Reactivity-0; Personal Protection-B DOT Hazard Classification: ORM-D Identity (trade name as used on label): MISTY CONTACT & CIRCUIT BOARD CLEANER III |
| Date Prepared: 01/21/99 Prepared By: DL/KD/CH | MSDS Number: 368 Revision: 4 |
| Information Calls: (770)422-2071 EMERGENCY RESPONSE NUMBER: 1(800)255-3924 | 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 ** |
| ISOPROPANOL | 67-63-0 | No | 500 | 400 | d |
| 2-METHYLPENTANE | 107-83-5 | No | 500 | 500 | d |
| 3-METHYLPENTANE | 96-14-0 | No | 500 | 500 | d |
| 2,3 DIMETHYLBUTANE | 79-29-8 | No | 500 | 500 | d |
| 2,2 DIMETHYLBUTANE | 75-83-2 | No | 500 | 500 | d |
| CARBON DIOXIDE | 124-38-9 | No | 5000 | 5000 | d |
| n-HEXANE | 110-54-3 | Yes | 50 | 50 | d |
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| SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS | |
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| Boiling Point: N/A | Specific Gravity (H ₂ O=1): Concentrate Only = 0.667 |
| Vapor Pressure: PSIG @ 70°F (Aerosols): 80-100 | Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A |
| Vapor Density (Air = 1): N/E | Evaporation Rate (= 1): N/E |
| Solubility in Water: None | Water Reactive: No |
| Appearance and Odor: Clear forceful spray with aliphatic solvent odor. | |

| SECTION 3 - FIRE AND EXPLOSION HAZARD DATA | | |
|---|---|---|
| FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) EXTREMELY FLAMMABLE | Auto Ignition Temperature N/E | Flammability Limits in Air by % in Volume: % LEL: N/E % UEL: N/E |
| FLASH POINT AND METHOD USED (non-aerosols): N/A | | EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide. |
| SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus. | | |
| Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 130°F or the container may rupture. | | |

| SECTION 4 - REACTIVITY HAZARD DATA | |
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| STABILITY [X] STABLE [] UNSTABLE | HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR |
| Incompatibility (Mat. to avoid): Strong oxidizing agents. | Conditions to Avoid: Open flame, welding arcs, heat, sparks. |
| Hazardous Decomposition Products: Carbon dioxide, carbon monoxide. | |

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

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| ACUTE EFFECTS | |
| Inhalation: Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, nausea, headache, possible unconsciousness or asphyxiation. | |
| Eye Contact: Slight irritation. | Skin Contact: Slight irritation due to defatting of skin. |
| Ingestion: Irritation. | |
| CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) Excessive inhalation may result in central nervous system effects. | |
| Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions. | |

| EMERGENCY FIRST AID PROCEDURES | |
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| Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attention. | |
| Skin Contact: Wash with soap and water. If irritated, seek medical attention. | |
| Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention. | |
| Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention. | |

| SECTION 6 - CONTROL AND PROTECTIVE MEASURES | |
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| Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH approved for organic vapor. | |
| Protective Gloves: Neoprene | Eye Protection: Safety glasses recommended. |
| Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV. | |
| Other Protective Clothing & Equipment: None | |
| Hygienic Work Practices: Wash with soap and water before handling food. | |

| SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE | |
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| Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local, state or federal regulations. DO NOT FLUSH TO SEWER. | |
| Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard. | |
| Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 130°F. | |
| Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. | |

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