



# MATERIAL SAFETY DATA SHEET

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

IDENTITY AND DISTRIBUTOR'S INFORMATION					
<b>NFPA Rating:</b> Health-1; Flammability-0; Reactivity-0; Special- -			<b>HMIS Rating:</b> Health-1; Flammability-0; Reactivity-0; Personal Protection-B		
<b>Manufacturer's Name:</b> AMREP, INC. Address: 990 Industrial Park Drive Address: Marietta, Ga. 30062 Phone: 770-422-2071			<b>DOT Hazard Classification:</b> ORM-D <b>Identity</b> (trade name as used on label): <b>I-CHEM ELECTRONICS CLEANER NF # ICA369</b>		
Emergency Response Number: 1-800-255-3924			<b>MSDS Number:</b> A00369      Revision- 1		
<b>NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA</b>			Date Prepared: 01/06/03      Prepared By: AH/IB Information Calls: (770) 422-2071		
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
<b>COMPONENTS-CHEMICAL NAMES AND COMMON NAMES</b> (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)      Carcinogen Ref. Source **
1,1,1,2-TETRAFLUOROETHANE		811-97-2	No	NE	NE      d
TRANS 1,2-DICHLOROETHYLENE		156-60-5	No	200	200      d
1,1,1,3,3-PENTAFLUOROBUTANE		406-58-6	No	NE	NE      d
1,1,1,2,2,3,4,5,5,5-DECAFLUOROPENTANE		138495-42-8	No	NE	NE      d
ETHANOL		64-17-5	No	1000	1000      d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
<b>Boiling Point:</b> N/A			<b>Specific Gravity</b> (H <sub>2</sub> O=1): Concentrate Only = 1.24		
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): 50-60			<b>Vapor Pressure</b> (Non-Aerosols)(mm Hg and Temperature): N/A		
<b>Vapor Density</b> (Air = 1): greater than 1			<b>Evaporation Rate</b> ( = 1): N/E		
<b>Solubility in Water:</b> None			<b>Water Reactive:</b> No		
<b>Appearance and Odor:</b> Clear, forceful, conical mist spray with ethereal odor. (Extension tube attachment delivers narrow forceful mist.)					
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA					
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols): extinguishes flame: categorized as NON-FLAMMABLE		<b>Auto Ignition Temperature</b> N/E		<b>Flammability Limits in Air by % in Volume:</b> % LEL: N/E      % UEL: N/E	
<b>FLASH POINT AND METHOD USED</b> (non-aerosols): N/A			<b>EXTINGUISHER MEDIA:</b> Foam, dry chemical, carbon dioxide.		
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Self-contained breathing apparatus.					
<b>Unusual Fire &amp; Explosion Hazards:</b> Do not expose aerosols to temperatures above 130°F or the container may rupture.					
SECTION 4 - REACTIVITY HAZARD DATA					
<b>STABILITY</b> [ X ] STABLE [ ] UNSTABLE			<b>HAZARDOUS POLYMERIZATION</b> [ ] WILL [ X ] WILL NOT OCCUR		
<b>Incompatibility</b> (Mat. to avoid): Strong oxidizing agents, strong bases (sodium hydroxide, potassium hydroxide), alkaline earth metals, finely powdered metals such as aluminum, magnesium or zinc.			<b>Conditions to Avoid:</b> Open flame, glowing metal surfaces, welding arcs, heat, sparks.		
<b>Hazardous Decomposition Products:</b> Carbon dioxide, carbon monoxide, hydrofluoric acid, hydrochloric acid, chlorine and possible carbonyl fluoride.					
SECTION 5 - HEALTH HAZARD DATA					
<b>PRIMARY ROUTES OF ENTRY:</b> [ X ] INHALATION [ ] INGESTION [ X ] SKIN ABSORPTION [ ] EYE [ ] NOT HAZARDOUS					
ACUTE EFFECTS					
<b>Inhalation:</b> Excessive inhalation of vapors can cause central nervous system depression, dizziness, weakness, confusion, incoordination or unconsciousness. Irregular heart beat with a strange sensation in the chest, "heart thumping", apprehension, lightheadedness, feeling of fainting, dizziness, weakness may progress to loss of consciousness and death. Suffocation if air is displaced by vapors.					
<b>Eye Contact:</b> Irritation with tearing, pain or blurred vision. "Frostbite-like" effects may occur if vapors contact eyes.			<b>Skin Contact:</b> Slight irritation with itching, redness or swelling. Prolonged exposure may result in defatting of the skin. Overexposure to vapors may cause frostbite.		
<b>Ingestion:</b> Aspiration which may cause "chemical pneumonia". Symptoms include coughing, gasping, choking, shortness of breath, bluish discoloration of skin, rapid breathing and heart rate, and fever.					
<b>CHRONIC EFFECTS:</b> (Effects due to excessive exposure to the raw materials of this mixture) Excessive inhalation may result in central nervous system effects.					
<b>Medical Conditions Generally Aggravated by Exposure:</b> May aggravate existing eye, skin, or upper respiratory conditions.					
EMERGENCY FIRST AID PROCEDURES					
<b>Eye Contact:</b> Flush with water for 15 minutes. If irritated, seek medical attention.					
<b>Skin Contact:</b> Wash with soap and water. If irritated, seek medical attention.					
<b>Inhalation:</b> Remove to fresh air. Resuscitate if necessary. Get medical attention.					
<b>Ingestion:</b> DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.					
SECTION 6 - CONTROL AND PROTECTIVE MEASURES					
<b>Respiratory Protection (specify type):</b> If vapor concentration exceeds TLV, use respirator approved by NIOSH for organic vapor.					
<b>Protective Gloves:</b> Neoprene or other as recommended compatible by glove manufacturer.			<b>Eye Protection:</b> Safety glasses recommended.		
<b>Ventilation Requirements:</b> Adequate ventilation to keep vapor concentration below TLV.					
<b>Other Protective Clothing &amp; Equipment:</b> None					
<b>Hygienic Work Practices:</b> Wash hands with soap and water before handling food.					
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE					
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> Absorb with suitable medium. Incinerate or landfill according to local, state or federal regulations. DO NOT FLUSH TO SEWER.					
<b>Waste Disposal Methods:</b> Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.					
<b>Precautions To Be Taken In Handling &amp; Storage:</b> Do not puncture or incinerate containers. Do not store at temperatures above 130°F.					
<b>Other Precautions &amp;/or Special Hazards:</b> 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