

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-3; Reactivity-0; Special- - Manufacturer's Name: AMREP, INC. Address: 990 Industrial Park Drive Marietta, GA 30062	HMIS Rating: Health-3; Flammability-3; Reactivity-0; Personal Protection-B DOT Hazard Classification: Flammable Liquid, 3 Identity (trade name as used on label): Parts Master Methanol Gas Line Anti-Freeze/Part #0456
Date Prepared: 21 August 2000 Prepared By: RC Information Calls: (770)422-2071 EMERGENCY RESPONSE NUMBER: 1(800)255-3924	MSDS Number: RL-456 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 **
METHANOL	67-56-1	Yes	200	200	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS	
Boiling Point: 147°F Vapor Pressure: PSIG @ 70°F (Aerosols): N/A Vapor Density (Air = 1): N/D Solubility in Water: complete	Specific Gravity (H2O=1): 0.80 Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): 68°F 27 mm/Hg Evaporation Rate (water = 1): >1 Water Reactive: No
Appearance and Odor: Clear, non-viscous liquid with alcohol odor.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA		
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A	Auto Ignition Temperature: N/E	Flammability Limits in Air by % in Volume: % LEL: 6.0 % UEL: 36.5
FLASH POINT AND METHOD USED (non-aerosols): 55°F TCC	SPECIAL FIRE FIGHTING PROCEDURES: Full protective clothing & self-contained breathing apparatus should be worn when exposed to vapors or products of combustion.	
EXTINGUISHER MEDIA: Water spray, alcohol foam, CO2, dry chemical.		
Unusual Fire & Explosion Hazards: None known.		

SECTION 4 - REACTIVITY HAZARD DATA	
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE Incompatibility (Mat. to avoid): Alkali & alkaline earth metals, anything reactive to water.	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR Conditions to Avoid: Heat, sparks, open flame.
Hazardous Decomposition Products: Oxides of carbon, formaldehyde, methanol vapors.	

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 type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
ACUTE EFFECTS: Prolonged or repeated exposures by any route may cause systemic poisoning including varying degrees of temporary or permanent visual damage.	
Inhalation: May irritate respiratory mucous membranes. May cause systemic toxicity.	
Eye Contact: May cause eye irritation. Sufficient absorption for systemic toxicity unlikely.	
Skin Contact: May cause irritation & dryness. Absorption from prolonged contact may cause systemic toxicity.	
Ingestion: Causes dizziness, headache, acidosis, visual disturbances & damage & possible unconsciousness.	
CHRONIC EFFECTS: Methanol poisoning can result in permanently impaired vision or blindness & degenerative damage to internal organs. The effects of methanol may be cumulative.	
Medical Conditions Generally Aggravated by Exposure: Not specifically known.	

EMERGENCY FIRST AID PROCEDURES	
Eye Contact: Flush with large amounts of water for 15 minutes. If irritation persists, get medical attention.	
Skin Contact: Wash with large amounts of water. Get medical attention.	
Inhalation: Remove to fresh air. Give artificial respiration or oxygen as needed. If symptoms develop, get medical attention.	
Ingestion: Give 2 glasses of water and INDUCE VOMITING . Repeat until vomitus is clear. Get immediate medical attention. Never give anything by mouth to an unconscious person.	

SECTION 6 - CONTROL AND PROTECTIVE MEASURES	
Respiratory Protection (specify type): None needed under normal conditions of handling and usage.	
Protective Gloves: Impervious gloves.	
Eye Protection: Chemical goggles or full face shield.	
Ventilation Requirements: No special ventilation is needed under normal conditions of handling. If mechanical ventilation is required, use explosion-proof ventilation.	
Other Protective Clothing & Equipment: Impervious clothing as needed where splashing is a problem. Eyewash stations and safety showers.	
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 spill. Soak up in inert absorbent material. Place in leak-proof containers. Seal & properly label containers.	
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. Store in cool area away from heat, sparks or open flame.	
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