

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					
NFPA Rating: Health-3; Flammability-0; Reactivity-0; Special- -			HMIS Rating: Health-3; Flammability-0; Reactivity-0; Personal Protection-B		
Manufactured For: Hillyard Industries, Inc. Address: 302 N. 4 th Street Address: St. Joseph, MO 64501			DOT Hazard Classification: Corrosive Material, 8 Identity (trade name as used on label): Drain Maintainer / #HIL0112104		
Phone: (816)-233-1321 ext. 8285 or http://www.hillyard.com			MSDS Number: R 993 Revision - 7		
EMERGENCY RESPONSE NUMBER: Chemtrec 1-800-424-9300 NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA			Date Prepared: 01/04/96 Prepared By: ES Information Calls: (770)422-2071		
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 **
POTASSIUM HYDROXIDE		1310-58-3	No	2mg/m3	2mg/m3 d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point: 100°C		Specific Gravity (H ₂ O=1): 1.19			
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A		Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D			
Vapor Density (Air = 1): N/D		Evaporation Rate (water = 1): 1.0			
Solubility in Water: Miscible		Water Reactive: No			
Appearance and Odor: Clear, red, non-viscous liquid with bland 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): Non-Combustible		EXTINGUISHER MEDIA: Non-Combustible; use media appropriate to surrounding fire.			
SPECIAL FIRE FIGHTING PROCEDURES: Non-Combustible; use procedures appropriate to surrounding fire.					
Unusual Fire & Explosion Hazards: Contact with aluminum or other reactive metals may liberate explosive hydrogen gas.					
SECTION 4 - REACTIVITY HAZARD DATA					
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE		HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR			
Incompatibility (Mat. to avoid): Acids, aluminum or other reactive metals, leather, wool.		Conditions to Avoid: None known.			
Hazardous Decomposition Products: Potassium oxide.					
SECTION 5 - HEALTH HAZARD DATA					
PRIMARY ROUTES OF ENTRY: <input checked="" type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS					
ACUTE EFFECTS: Corrosive to all body tissues with which it comes in contact.					
Inhalation: Airborne concentrations of mist or spray may cause damage to upper respiratory tract & even to lung tissue which could produce chemical pneumonia, depending on severity of exposure.					
Eye Contact: May cause severe burns that result in damage & even blindness.			Skin Contact: May cause severe burns on prolonged contact.		
Ingestion: Can cause severe burns on mucous membranes of mouth, throat, esophagus and stomach.					
CHRONIC EFFECTS: Tissue damage depending on location & degree of exposure.					
Medical Conditions Generally Aggravated by Exposure: Dermatitis.					
EMERGENCY FIRST AID PROCEDURES					
Eye Contact: Flush with large amounts of water for at least 15 minutes while holding lids apart. Get immediate medical attention.					
Skin Contact: Remove contaminated clothing & wash contaminated areas with plenty of water for 15 minutes. If tissue is damaged seek medical attention.					
Inhalation: Remove to fresh air. If not breathing, resuscitate & administer oxygen if available. Seek immediate medical attention.					
Ingestion: DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water, milk if available. Never give anything by mouth to an unconscious person. Get immediate medical attention.					
SECTION 6 - CONTROL AND PROTECTIVE MEASURES					
Respiratory Protection(specify type): None required under normal handling & use.Use NIOSH/MSHA approved respirator where mist or spray may be generated.					
Protective Gloves: Rubber			Eye Protection: Chemical goggles.		
Ventilation Requirements: Normal room ventilation is generally adequate. Use adequate local exhaust ventilation where mist or spray may be generated.					
Other Protective Clothing & Equipment: Clothing as needed to minimize contact. Eyewash stations and safety shower.					
Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash immediately on contact.					
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE					
Steps To Be Taken If Material Is Spilled Or Released: Contain spill. Do not contaminate sewer,ground or surface waters. Soak up spill in inert absorbent material & place in properly labeled leak-proof containers for proper disposal.					
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 freezing. Shelf life one year.					
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions. Avoid bodily contact.					

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