

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- - Distributed by: Chemical Maintenance, Inc. Address: 1100 Bloomington Road Champaign, IL 61820	HMS Rating: Health-3; Flammability-0; Reactivity-0; Personal Protection-B DOT Hazard Classification: Corrosive Material, 8 Identity (trade name as used on label): <b style="text-align: center;">CHARGER
Date Prepared: 01/04/96 Prepared By: ES Information Calls: (770)422-2071 EMERGENCY RESPONSE NUMBER: 1(800)255-3924	MSDS Number: R 993 Revision - 7 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 **
POTASSIUM HYDROXIDE	1310-58-3	No	2mg/m3	2mg/m3	d

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS	
Boiling Point: 100°C	Specific Gravity (H2O=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.	Eye Protection: Chemical goggles.
Protective Gloves: Rubber	
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