

**Material Safety Data Sheet**

May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.

**U.S. Department of Labor**

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

<b>IDENTITY</b> Battery Fluid, Alkali	(As Used on Label and List)	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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**Section I**

<b>Manufacturer's Name</b> Yardney Technical Products, Inc.	<b>Emergency Telephone Number</b> (800) 255-3924
<b>Address (Number, Street, City, State, and Zip Code)</b> 2000 South County Trail	<b>Telephone Number for Information</b> 401-471-6580
East Greenwich, RI 02818-1530	<b>Date Prepared</b> 02/05/2013
	<b>Signature of Preparer (optional)</b>

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Potassium Hydroxide	2 MG/M3 (c)	-	-	45%
AKA: Caustic Potash, Battery Fluid Alkali, Potassium Hydroxide				
CASRN: 1310-58-3				
Chemical Symbol: KOH				
Proper DOT Shipping Name	Battery Fluid, Alkali, 8, UN2797, PG II			

**Section III - Physical/Chemical Characteristics**

<b>Boiling Point</b>	760 mm Hg @ 133°C	<b>Specific Gravity (H2O = 1)</b>	1.45 @ 15.6°C
<b>Vapor Pressure (mm Hg.)</b>	N/A	<b>Melting Point</b>	N/A
<b>Vapor Density (AIR = 1)</b>	N/A	<b>Evaporation Rate (Butyl Acetate = 1)</b>	N/A
<b>Solubility in Water</b>	Completely soluble		
<b>Appearance and Odor</b>	Clear liquid with no odor		

**Section IV - Fire and Explosion Hazard Data**

<b>Flash Point (Method Used)</b>	None	<b>Flammable Limits</b>	Non-Flammable	<b>LEL</b>	N/A	<b>UEL</b>	N/A
<b>Extinguishing Media</b>	This product is not combustible Water spray, foam, CO2, or dry chemicals can be used where this product is stored.						
<b>Special Fire Fighting Procedures</b>	Avoid direct contact of this product with water since this can cause a violent exothermic reaction. Protective clothing and SCBA should be worn by fire fighters in areas where product is stored.						
<b>Unusual Fire and Explosion Hazards</b>	Violent exothermic reactions possible when mixed with incompatible materials.						

**Section V - Reactivity Data**

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>
	<b>Stable</b>	X	Add to water or acids with dilution and agitation to avoid violent exothermic reaction
<b>Incompatibility (Materials to Avoid)</b> Aluminum, tin, zinc, strong acids, leather, organic halogen compounds, organic nitrocompounds, wool.			
<b>Hazardous Decomposition or Byproducts</b> None			
<b>Hazardous Polymerization</b>	<b>May Occur</b>		<b>Conditions to Avoid</b>
	<b>Will Not Occur</b>	X	Material is not known to polymerize.

**Section VI - Health Hazard Data**

<i>Route(s) of Entry:</i>	<i>Inhalation?</i>	<i>Skin?</i>	<i>Ingestion?</i>
	X	X	X

*Health Hazards (Acute and Chronic)*  
 Corrosive to all body tissues with which it comes in contact with. Inhalation of mist/fumes may result in damage to the respiratory tract. Ingestion can cause severe burns and tissue perforation of mouth throat, esophagus and stomach. No known chronic effects.

<i>Carcinogenicity:</i>	<i>NTP?</i>	<i>IARC Monographs?</i>	<i>OSHA Regulated?</i>
	NO	NO	NO

*Signs and Symptoms of Exposure*  
 This product has no odor. Depending on concentration, exposure will be detected by irritation or burning sensation of the affected tissue.

*Medical Conditions* *Generally Aggravated by Exposure*  
 Dermatitis, Respiratory illnesses

*Emergency and First Aid Procedures*  
 INHALATION: Remove victim to fresh air, rescue breathe if required. Seek Medical Attention.  
 EYES: Flush eyes with plenty of water for 15 minutes, seek medical attention.  
 SKIN: Remove clothing contaminated with chemical, flush the affected area with plenty of water for 15 minutes, seek medical attention  
 INGESTION: Do not induce vomiting, give large quantities of water or milk, seek medical attention immediately.

**Section VII - Precautions for Safe Handling and Use**

*Steps to Be Taken in Case Material is Released or Spilled*  
 Leaks should be stopped. Contain spills and clean up immediately. Use absorbent materials. Cover spill area with sodium bicarbonate after clean up to neutralize any residual. Soils should be removed if spill was not on impervious surface.

*Waste Disposal Method*  
 The residues from a spill may be hazardous. Excess battery fluid is corrosive (PH <12) and is hazardous. Dispose of residues and excess in accordance with environmental regulations.

*Precautions to Be Taken in Handling and Storage*  
 Avoid contact with skin. Do not get into eyes or on clothing. Do not inhale mist/fumes. Do not store with incompatible material.

*Other Precautions*  
 Burns are not immediately painful or visible. Wear the protective clothing listed in sec VIII to avoid contact

**Section VIII - Control Measures**

*Respiratory Protection (Specific Type)*  
 Use NIOSH/MSHA approved respirator where mist or fumes may be generated.

<i>Ventilation</i>	<i>Local Exhaust</i>	<i>Special</i>
	Required where mist or fumes may be generated	Tank entry requires compliance with OSHA regulations
	<i>Mechanical (General)</i>	<i>Other</i>
		Air sample per NIOSHA Method 7401
<i>Protective Gloves</i>	Natural/Butyl rubber gloves	<i>Eye Protection</i> Wear chemical safety goggles and face shield to protect from splashing

*Other Protective Clothing or Equipment*  
 Impervious protective clothing, I.E. apron, boots, sleeves, eyewash-shower facilities.

*Work Hygienic Practices*  
 Wash thoroughly after working with this chemical.