

# MATERIAL SAFETY DATA SHEET

(Prepared According to 29 CFR 1910.1200)

DATE PREPARED: 11/20/2002

CODE: 1451

SECTION 1 - PRODUCT IDENTIFICATION			
Distributor <b>PB GAST &amp; SONS COMPANY</b>	Emergency Phone <b>1-800-255-3924</b>	Refer To Product Code: <b>BL-030</b>	
Address <b>1515 Madison Ave. S.E. Grand Rapids MI 49507</b>			
Trade Name <b>FORMULA FOUR FINISHED CONCENTRATE</b>	Product Type <b>Steam &amp; Pressure Cleaner</b>		
SECTION 2 - INGREDIENTS			
CHEMICAL NAME/COMMON NAME	CAS NO.	PERCENT(optional)	TLV(Source)
Potassium Hydroxide	1310-58-3	<10%	2mg/M3 (CEILING)
Dipotassium E.D.T.A.	2001-94-7	<10%	2mg/M3(as KOH)
Nonionic Surfactant	9016-45-9	<10%	None Established
SARA HAZARD: TITLE III, SECTION 313: Contains no Section 313 listed substances subject to reporting requirements.			
SECTION 3 - PHYSICAL DATA			
Boiling point (°F.) <b>212°F</b>	Specific Gravity (H2O=1.0) <b>1.0 ± 0.005</b>	pH <b>13.2 ± 0.5</b>	
Vapor Pressure (mm Hg) <b>Not Determined</b>	Vapor Density (Air=1) <b>Not Determined</b>		
Solubility in water <input checked="" type="checkbox"/> Complete <input type="checkbox"/> Insoluble <input type="checkbox"/> Emulsifiable (or Dispersible) <input type="checkbox"/> Slight (or Partial)			
Evaporation Rate (vs. H2O) <input type="checkbox"/> Faster <input type="checkbox"/> Slower <input checked="" type="checkbox"/> About the Same	Appearance and Odor <b>Clear red-colored liquid with no distinct odor.</b>		
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (T.C.C.) <b>°F. <input checked="" type="checkbox"/> None to Boiling</b>	Flammable Limits <b>N.A.</b> Upper Lower		
Extinguishing Media <b>Product is noncombustible. Water Spray(Fog), Dry Chemical; CO2; or Foam may be used where product is stored.</b>			
Special Firefighting Procedures <b>Do not enter confined fire-spaces without protective clothing and self-contained air supply.</b>			
Unusual Fire and Explosion Hazards <b>None</b>			
SECTION 5 - REACTIVITY DATA			
Stability <b>Stable</b>	Incompatibility <b>Strong Acids, Strong Oxidizers.</b>		
Hazardous Decomposition Products <b>Burning may produce oxides of carbon and other substances.</b>			
SECTION 6 - HEALTH HAZARD DATA			
Primary Routes of Exposure <input checked="" type="checkbox"/> Eye <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Oral <input type="checkbox"/> Inhalation <input type="checkbox"/> Other			
Signs and Symptoms of Overexposure (Acute)	<b>Corrosive material. Will cause burns of skin and eyes with prolonged contact. Corneal damage likely if contact with eyes is prolonged. Generated mists may be severely irritating and cause damage to respiratory tract if inhaled. If swallowed will cause irritation and burns of mucous membranes as well as nausea, vomiting and abdominal pain.</b>		
Signs and Symptoms of Overexposure (Chronic):	<b>Chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis.</b>		
Medical Conditions Aggravated by Overexposure	<b>An existing dermatitis.</b>		
Carcinogen or Suspect Carcinogen Ingredients <input type="checkbox"/> NTP <input type="checkbox"/> IARC <input type="checkbox"/> OSHA <input checked="" type="checkbox"/> NONE			
SECTION 7 - EMERGENCY AND FIRST AID PROCEDURES			
Eyes	<b>Flush eyes with water for at least 15 minutes and call a physician immediately.</b>		
Skin	<b>Wash affected areas with large amounts of soap and water. If irritation persists call a physician.</b>		
Ingestion	<b>Do NOT induce vomiting. Dilute by drinking water. Call a physician immediately.</b>		
Inhalation	<b>Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.</b>		
SECTION 8 - SPECIAL PROTECTION INFORMATION			
Respiratory Protection	<b>Not required under normal use conditions. Avoid misting conditions unless protected.</b>		
Ventilation Requirements <b>Normal</b> <input type="checkbox"/> Local Exhaust <input type="checkbox"/> Mechanical <input type="checkbox"/> Other	Eye Protection <b>Safety Glasses/Goggles</b>		
Protective Gloves <b>Rubber/PVC</b> <input type="checkbox"/> Other Protective Clothing	<b>Impervious protective clothing, safety shoes, safety shower when &amp; where appropriate to minimize contact during specific operations.</b>		
SECTION 9 - SPILL OR LEAK PROCEDURES			
Steps to be Taken If Released or Spilled	<b>Do not touch or walk through spilled material. Stop leak if you can do it without risk. Take up small spills with sand or other inert absorbent material and place into containers for later disposal. Dike ahead of large spill for later disposal.</b>		
Waste Disposal Methods	<b>Dispose of in an approved waste facility according to Federal, State and local regulations.</b>		
SECTION 10 - STORAGE AND HANDLING INFORMATION			
Precautions to be Taken In Handling and Storage	<b>WARNING: Corrosive liquid. Handle all containers carefully. Keep container closed when not in use. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse. Neutralized material is not RCRA hazardous. Do not get in eyes, on skin or clothing. DOT Classification : Corrosive Liquid.</b>		

The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.

HMIS  
HAZARD  
RATING

HEALTH	<b>3</b>	
FLAMMABILITY	<b>0</b>	
REACTIVITY	<b>0</b>	
	<b>..</b>	

0 - LEAST  
1 - SLIGHT  
2 - MODERATE  
3 - HIGH  
4 - EXTREME