

MATERIAL SAFETY DATA SHEET

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Date Prepared: 06/16/2010

SECTION I				
Product Identity (Name / Number)	DISH BRITE Machine Dishwashing Detergent / 9703 & 9703+			
Chemical Family	Alkaline Cleaner.			
	DOT: Corrosive liquids, n.o.s. (contains Potassium hydroxide, solution), 8, UN1760, PGII			
	HMIS & NFPA Ratings: Health = 3 Fire = 0 Reactivity = 2			
SECTION II - Hazardous Ingredients				
Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Potassium Hydroxide	2 mg/m ³	2 mg/m ³	2 mg/m ³	Proprietary
SECTION III - Physical & Chemical Characteristics				
Boiling Point	Above 212°F	Specific Gravity	1.1	
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A	
pH	13	Evaporation Rate (Ethyl Ether=1)	Less than 1	
Solubility in Water	Complete	Appearance / Odor	Red or Amber Liquid / Mild	
SECTION IV - Fire & Explosion Hazard Data				
Flammable Limits (Explosive Limit)	Upper:	N/A	Lower:	N/A
Flash Point (Method Used)	N/A			
Extinguishing Media	Material is non-flammable. Water spray, foam, carbon dioxide, or dry chemical may be used for surrounding fires.			
Special Fire Fighting Procedures	Product is not flammable. Wear full protective clothing. Contact of this product with water causes an exothermic reaction.			
Unusual Fire and Explosion Hazards	Avoid contact with aluminum, zinc, tin and their alloys since product reacts with these metals generating hydrogen gas which is flammable and/or explosive when ignited. Do not mix with strong acids to prevent violent or explosive reaction.			
SECTION V - Reactivity Data				
Stability:	Unstable		X	Stable
Hazardous Polymerization:	X	Will Not Occur	May Occur	
Conditions To Avoid	Excessive heat and contamination of any kind. See Special Precautions.			
Incompatibility (Materials to Avoid)	Acids and combustible materials. Also see Section IV. Avoid contact with trichloroethylene, leather, wool, organic halogen compounds, organic nitro compounds, metals such as aluminum, tin, zinc, brass and bronze.			
Hazardous Decomposition or Byproducts	Flammable hydrogen gas will be liberated on contact with some metals such as aluminum.			

SECTION VI(a) - Health Hazard Data

Inhalation	Highly CORROSIVE. Breathing causes serious damage to nasal and respiratory passages. Breathing high concentrations may result in death.
Eye	Even slight contact of the liquid with eyes will result in irritation and severe burns. Prolonged contact may cause permanent eye injury and blindness. Treat immediately.
Skin	Product is corrosive and will cause skin burns. Treat immediately.
Ingestion	Swallowing will result in severe damage to mucous membranes. Ingestion may cause intense pain, nausea, vomiting and collapsing.

Reported As Potential Carcinogen or Carcinogen

	International Agency for Research on Cancer	X	Not Applicable
	National Toxicology Program		OSHA

SECTION VI(b) - First Aid Procedures

Inhalation	Remove victim to fresh air. If not breathing, perform artificial respiration. Get medical attention.
Eye	Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids open. Get medical attention.
Skin	Wash thoroughly with water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention.
Ingestion	DO NOT induce vomiting. Give large quantities of water if conscious and alert. Follow by administering milk. Get medical attention.

SECTION VI(c) - Employee Protection

Respiratory Protection (Utilize NIOSH approved respirators. Refer to manufacturer's protection factors and OSHA standard 1910.134 as a guideline.) CORROSIVE. If TLV of product is exceeded, use NIOSH approved respirator, fully enclosed.

<u>SPECIAL PROTECTION INFORMATION:</u>	
EYE	Chemical safety goggles or full face shield required. Do not wear contact lenses if eye contact is possible.
SKIN	Chemical resistant gloves required, natural and butyl rubber gloves suggested.
VENTILATION	Provide sufficient mechanical ventilation to maintain exposure below TLV's.
SPECIAL PROTECTION	Impervious clothing and boots may be worn to prevent skin contact. Showers and eyewash facilities should be in close proximity.

SECTION VII - Special Precautions

Handling and Storage	Store in cool, dry, well-ventilated area away from incompatible materials (see Section V). Excessive heat may cause pressure build-up. Keep container tightly closed. Do not use pressure to empty container. Wash thoroughly after handling. Empty containers retain <u>hazardous</u> product residue; handle accordingly.
Other Precautions	Addition of water releases heat which may result in boiling or splattering. Always add small amounts of material to water. Do not add water to material.

SECTION VIII - Environmental Protection

Spills / Releases	Trained personnel wearing protective equipment should contain spill. Extinguish all ignition sources. Neutralize with dilute acid. Scoop up into DOT-approved waste containers and wash site. Keep out of sewers, storm drains, surface waters and soil. Notify authorities for spills of 1,000 Lb. or more.
Waste Disposal Method	Neutralize with dilute acid. Dispose of in accordance with applicable local, state and federal regulations.

DISCLAIMER The information contained herein is based upon data available to us and reflects our best professional judgment. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for all individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all federal, state and local regulations. Our goal is to manufacture products with zero or minimal hazards. Our products are improved daily as up-to-date information and research is received from our suppliers to use products with less or no hazards. Please feel free to contact us for current information.