

MATERIAL SAFETY DATA SHEET

A Product Of: Date: 1-1-2005
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SECTION I - PRODUCT IDENTIFICATION

Trade Name: PATRIOT MACHINE DISH DETERGENT

Chemical name / synonyms: Alkaline water base detergent

Formula: Mixture

D.O.T.: Compounds, Cleaning Liquid (Contains Potassium Hydroxide & Hypochlorite Solution) 8, NA 1760, PG III

HMIS CODE: Health 3, Fire 0, Reactivity 2

HMIS KEY: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=insignificant

SECTION II - HAZARDOUS INGREDIENTS

Substance	% Composition	TLV
Potassium Hydroxide CAS #1310-58-3	20-30	2mg/m 3
Sodium Hypochlorite CAS# 7681-52-9	5-10	Unlisted

SECTION III - PHYSICAL DATA

Boiling Pt (°F): 212	Specific Gravity: 1.20
Vapor Pressure(mm Hg): NA	Percent Volatile: 0
Vapor Density (air=1): NA	Evaporation Rate (water=1): 1
Solubility in water: complete	pH: 13.5
Appearance and Odor: clear liquid, distinctive odor.	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Pt (°F): None Flammable limits in air (vol%)
test method: NA Upper: NA Lower: NA
Extinguishing Media: As necessary for surrounding fire.
Special fire fighting procedures: NA
Unusual fire and explosion hazard: NA

SECTION V - HEALTH HAZARD DATA ROUTES OF ENTRY

Threshold Limit Value: See Section II

Acute Effects of Overexposure: EYES-causes severe burns. May cause irreparable damage, and/or loss of vision. SKIN- corrosive action causes burns. Prolonged contact destroys tissues. INHALATION-mist may cause damage to the upper respiratory tract and lung tissue depending on extent of exposure. Effects range from mild irritation of mucous membranes, severe pneumonitis and lung tissue destruction. INGESTION-can cause very severe damage to mouth, esophagus, stomach. May be fatal.

Chronic Effects of Exposure: local effect may consist of multiple areas of superficial destruction of the skin or of primary dermatitis. Similarly, inhalation of the spray or mist may result in varying degrees of irritation.

Emergency and first aid procedures: EYES-flush with plenty of cool water for at least 15 minutes. Hold eyelids open during this flushing with water. Obtain medical attention. SKIN-immediately flush skin with plenty of water while removing contaminated clothing and boots. Call a physician. If skin feels slippery, caustic may still be present in sufficient quantities to cause rash or burn. Continue washing until slick skin feeling is gone. Thoroughly clean contaminated clothing and boots before reuse or discard. INHALATION-remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.

INGESTION- If conscious, drink large quantities of water. Do not induce vomiting. Take immediately to a hospital or physician. If vomiting occurs spontaneously, keep airway clear. If unconscious or in convulsions, take immediately to hospital. Do not attempt to induce vomiting or give anything by mouth to an unconscious person.

SECTION VI - REACTIVITY DATA

Stability: stable

Hazardous decomposition products: carbon monoxide and unidentified organic compounds may be formed during combustion.

Hazardous polymerization products: Will not occur.

Conditions to avoid: Mixing with strong acids or ammonia.

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken if material is released or spilled: Large spills: Dike and contain. Place in non leaking containers for disposal agency. Avoid contamination of food. Toxic to fish and wild life. Small spills: soak or mop up. Small spills may be flushed to sewer.

Waste disposal method: Large amounts should be given to licensed disposal agency.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Eye Protection: Splash goggles and/or face shield.

Respiratory Protection: None is normally required. However if misting or heavy vapor formation should occur, a NIOSH approved respirator should be worn.

Other Protection: Rubber boots. Rubber over leather shoes is not recommended. Rubber apron, rainwear or disposable TYVEK suit should be worn.

Ventilation: Provide adequate ventilation to meet TLV Requirements.

Protective gloves: Rubber, latex, plastic. Do not use leather or wool.

Additional Information: Safety eye wash/shower stations must be available in work area.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store above 35° F. Keep container tightly closed when not in use. Keep away from sunlight and heat to avoid deterioration. Decomposes with age, heat, light. Rotate stock.

Other precautions: KEEP OUT OF REACH OF CHILDREN.
NA means NOT APPLICABLE on this form.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described on the label or in the Product Data Sheet is the responsibility of the user.

This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communications Regulation and Massachusetts Right to Know Law.