

MATERIAL SAFETY DATA SHEET

HADDON EQUIPMENT & SUPPLIES
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Valid: Nov. 2011 – Nov. 2013

PRODUCT NAME: E-5 LIQUID MACHINE DISHWASH-CHLORINATED **CODE: J429**
OTHER NAME: DWD400
DISTRIBUTED BY:

WHMIS CLASSIFICATION: E; D2B
TDG CLASSIFICATION: POTASSIUM HYDROXIDE, SOLUTION; Class 8; UN 1814; PG II

HAZARDOUS INGREDIENTS	%WT/WT	CAS NO.	TOXICITY DATA (LD₅₀ & LC₅₀)
Potassium Hydroxide (45% Sol)	10-30	1310-58-3	LD ₅₀ Oral (rat) 365 mg/kg ACGIH TLV - 2 mg/m ³
Sodium Hypochlorite (12% Sol)	10-30	7681-52-9	LD ₅₀ Oral (rat) 12 mg/kg

PHYSICAL DATA FOR PRODUCT

Physical State: Liquid Sp. Gravity: 1.2075 pH: Highly alkaline
Boiling Point: Not Avail. Vapour Pressure: Not Avail.
Vapour Density: Not Avail. Evaporation Rate: Not Avail.
Freezing Point: 0°C
Solubility in Water: 100%
Appearance & Odour: Pale yellow liquid with chlorine odour.

FIRE AND EXPLOSION DATA FOR PRODUCT

Flash Point (Test Method): N/A
Flammable Limits in Air, % by vol. Non-flammable Lower: N/A Upper: N/A
Fire Extinguishing Substances: (X) Water Fog () Foam () CO₂ () Dry Chem () Other:

Hazardous Combustion Products: Chlorine, oxygen, potassium oxides and phosphorous oxides.
Special Firefighting Procedures: As for surrounding fire. Use full protective clothing.

REACTIVITY DATA FOR PRODUCT

Incompatibility: () Water (X) Oxidizing Material (X) Acid () Base
(X) Other: Chlorinated hydrocarbons, ammonia, aluminum, tin, lead and zinc.

Hazardous Decomposition Products: Hydrogen (from aluminum and other metals mentioned above), chlorine and oxygen.

Chemical Stability: Chlorine content decreases with heat, light, decrease in pH and contamination with heavy metals.

*N/A - Not applicable.

Product Name: **E-5 LIQUID MACHINE DISHWASH – CHLORINATED (DWD400)**

HEALTH HAZARD INFORMATION FOR PRODUCT

EMERGENCY and FIRST AID PROCEDURES

Inhalation: Remove to fresh air and get medical attention.

Ingestion: Get medical help immediately. Rinse mouth well with water and give patient large quantities of water or milk to drink to dilute the chemical. Do not induce vomiting.

Eyes: Flush with plenty of water for at least 20 minutes. Get medical attention.

Skin: Remove contaminated clothing immediately and flush with water for at least 15 minutes. Get medical help. No oil or ointment should be applied.

EFFECTS OF OVEREXPOSURE (Acute and Chronic)

Inhalation: Irritation of respiratory tract, inflammation of the lungs.

Ingestion: Burning in mouth and esophagus; nausea, vomiting, abdominal pain and diarrhea. Perforation of gastrointestinal tract may occur.

Eyes: Causes severe irritation to the mucous membranes of the eyes. May cause ulceration of the eye.

Skin: Severe irritation and burns to the skin.

PREVENTIVE MEASURES

Steps to be taken upon release or spillage (including neutralizing):

With large spills, dyke for later disposal. Neutralize with sodium sulphite then with diluted acid - like hydrochloric or sulfuric acid. Minor spills can be neutralized and flushed with plenty of water.

Waste disposal method:

Waste product should not be discharged into sewers or streams. It should be first neutralized and then discharged according to federal, local and provincial regulations.

Handling and Storage Requirements:

Keep container closed when not in use. Store in cool, dark place away from any possible contaminants.

Ventilation Requirements (Local or General): Use with adequate ventilation.

Respiratory Protection:

Not normally necessary unless product is misted.

Eye Protection:

Chemical workers goggles.

Other Protection:

Rubber, vinyl or neoprene gloves and coveralls should be worn.