

**MATERIAL SAFETY DATA SHEET**

HADDON EQUIPMENT & SUPPLIES  
8441 MAIN STREET  
VANCOUVER BC V5X 3Y2

Phone: (604) 325-3281  
In Case of Emergency Only:  
Phone CANUTEC: (613) 996-6666  
Valid: Nov. 2011 – Nov. 2013

**PRODUCT NAME:** E-10 LIQUID CIP CLEANER **CODE: E374**  
**OTHER NAME:** DWD10  
**DISTRIBUTED BY:**

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

---

<b>HAZARDOUS INGREDIENTS</b>	<b>%WT/WT</b>	<b>CAS NO.</b>	<b>TOXICITY DATA (LD<sub>50</sub> &amp; LC<sub>50</sub>)</b>
Potassium Hydroxide (45% Sol)	15-40	1310-58-3	LD <sub>50</sub> Oral(rat) 365 mg/kg ACGIH TLV - 2 mg/m <sup>3</sup>
Sodium Hypochlorite (12% Sol)	10-30	7681-52-9	LD <sub>50</sub> Oral(rat) 12 mg/kg

---

**PHYSICAL DATA FOR PRODUCT**

Physical State: Liquid  
Boiling Point: Not Avail.  
Vapour Density: Not Avail.  
Freezing Point: 0°C  
Solubility in Water: 100%  
Appearance & Odour: Pale yellow liquid with chlorine odour.

Sp.Gravity: 1.2402 pH: 13.4 1% Sol. 12.7  
Vapour Pressure: Not Avail.  
Evaporation Rate: Not Avail.

**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 ( ) CO<sub>2</sub> ( ) 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-10 LIQUID CIP CLEANER (DWD10)**

### **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.