

**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:** HADDON-PAK  
**OTHER NAME:** HADDON PAK  
**DISTRIBUTED BY:**

**CODE: G554**

**WHMIS CLASSIFICATION:** E  
**TDG CLASSIFICATION:** SODIUM HYDROXIDE, SOLID; Class 8; UN 1823; PG II

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<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>
Sodium Carbonate	15-40	497-19-8	LD <sub>50</sub> Oral (rat) 2800 mg/kg ACGIH TLV - 10 mg/m <sup>3</sup>
Sodium Hydroxide	15-40	1310-73-2	ACGIH TLV - 2 mg/m <sup>3</sup> LD <sub>50</sub> Oral (rabbit) 500 mg/kg

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**PHYSICAL DATA FOR PRODUCT**

Physical State: Solid                      Sp. Gravity: Not Avail.                      pH: 1% sol. 12.2  
Boiling Point: N/A                      Vapour Pressure: N/A  
Vapour Density: N/A                      Evaporation Rate: N/A  
Freezing Point: N/A  
Solubility in Water: 10 %  
Appearance & Odour: White granular powder.

**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: See Hazardous Decomposition Products.

Special Firefighting Procedures: Care should be taken when using water to extinguish surrounding fire because of danger of spattering. Wear full protective clothing.

**REACTIVITY DATA FOR PRODUCT**

Incompatibility: ( ) Water ( ) Oxidizing Material (X) Acid ( ) Base  
(X) Other: Chlorinated hydrocarbons, aluminum, tin, lead, zinc, copper, bronze and brass.  
Hazardous Decomposition Products: Hydrogen (from aluminum and other metals mentioned above), carbon oxides and phosphorous oxides during combustion.

Chemical Stability: Stable.

\*N/A - Not applicable.

Product Name: **HADDON-PAK (HADDON PAK)**

**HEALTH HAZARD INFORMATION FOR PRODUCT**

**EMERGENCY and FIRST AID PROCEDURES**

Inhalation: Remove to fresh air and get medical attention.

Ingestion: Get medical help immediately. Give patient large quantities of water or milk to drink to dilute the chemical. Do not induce vomiting.

Eyes: Flush thoroughly with water for at least 15 minutes. Get medical attention.

Skin: Remove contaminated clothing immediately and flush with water for at least 15 minutes. Get medical attention.

**EFFECTS OF OVEREXPOSURE (Acute and Chronic)**

Inhalation: May cause irritation of respiratory tract, inflammation of the lungs.

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

Eyes: Causes severe irritation to the mucous membranes of the eyes. May cause ulceration of the eye. Permanent visual damage may occur.

Skin: May cause severe deep burns of skin and underlying tissue.

**PREVENTIVE MEASURES**

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

With large spills, dyke for later disposal. Minor spills can be washed away with plenty of water.

Waste disposal method:

Waste should not be discharged into sewers or streams.

Handling and Storage Requirements:

Store in a cool, dry area away from acids. Prolonged storage may cause product to cake and become wet from atmospheric moisture.

Ventilation Requirements (Local or General):

Use with adequate ventilation.

Respiratory Protection:

An approved dust mask should be worn where dust occurs.

Eye Protection:

Safety glasses with sideshield.

Other Protection:

Rubber gloves, boots and coveralls should be worn to prevent contact with skin and clothing