

# MATERIAL SAFETY DATA SHEET

## I. PRODUCT INFORMATION

**TRADE NAME (as labeled):**

PDNH

**DATE PREPARED/REVISED:**

March 20, 1995

**MANUFACTURER'S NAME:**Hydro Engineering, Inc.  
865 West 2600 South  
Salt Lake City, Utah 84119**PHONE NUMBER(S):**801/972-1181 In Utah  
800/247-8424 Toll Free

## II. HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Percent	Exposure Limits in Air (give units)	
			ACGH TLV	OSHA PEL
<b>Other</b> (specify) Sodium Hydroxide	1310-73-2		2 mg/m <sup>3</sup>	

Contains: Alkaline salts, detergents, alkyl aryl sulfonate, and water which are exempt or not listed as hazardous substances.  
(This product contains less than 15% Sodium Hydroxide in solution)

## III. PHYSICAL PROPERTIES

**Vapor density (air=1):** > 1  
**Specify gravity (H<sub>2</sub>O=1):** > 1  
**Solubility in water:** Complete  
**Vapor pressure (mmHg @ 20 °C):** 1.22  
**Appearance and odor:** Thick paste-like liquid, cream in color, NIL odor.  
 pH at 1% solution = 12.3

**Melting point of range (°F):** Unknown  
**Boiling point or range (°F):** N/A  
**Evaporation rate (butyl acetate=1):** < 1

## IV. FIRE AND EXPLOSION

**Flash point (°F) (give method):** Nonflammable**Auto ignition temperature (°F):** Not Tested**Flammable limits in air (volume %):** lower (LEL): Unknown upper (UEL): Unknown**Fire extinguishing materials:**

water spray                       carbon dioxide (CO<sub>2</sub>)                       other (alcohol type)  
 foam                                       dry chemical

**Special fire fighting procedures:** Do NOT enter confined fire space without full bunker gear (helmet with face shield, coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.**Unusual fire and explosion hazards:** When diluted with water spray, product can produce a slippery alkaline.

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**V. HEALTH HAZARD INFORMATION**


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**SYMPTOMS OF OVEREXPOSURE (for each potential route of exposure).****Inhaled:** May cause labored breathing, dizziness, nausea.**Skin:** Moderate irritant, possible burns.**Swallowed:** Nausea. Intestinal burns possible.

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**HEALTH EFFECTS OR RISKS FROM EXPOSURE: Explain in lay terms.**
**Acute:** Product is a strong alkaline and will cause chemical burns upon direct contact with skin or eyes.**Cronic:** None observed.

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**FIRST AID EMERGENCY PROCEDURES:**
**Eye contact:** Flush immediately with water for at least 15 minutes. Contact a physician if irritation persists.**Skin contact:** Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation persists.**Inhaled:** Remove victim to to fresh air. Provide oxygen if breathing is difficult. Seek medical aid.**Swallowed:** Do NOT induce vomiting. Give large quantities of milk or water to dilute. Seek medical aid.

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**SUSPECTED CANCER AGENT?**
 **NO:** This product's ingredients are not found on the list below.**YES:**       **Federal OSHA**       **NTP**       **IARC**


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**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Severe irritant, particularly to pre-existing skin conditions.

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**VI. REACTIVITY DATA**


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**Stability:**     **Stable**                       **Unstable****Conditions to avoid:** Do not store close to oxidizers.**Incompatibility (materials to avoid):** Can chemically react with acids producing heat.**Hazardous decomposition products (including combustion products):** None known.**Hazardous polymerization:**     **May occur**                       **Will not occur****Conditions to avoid:** None known.

## VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

**Spill response procedures (include employee protection measures):** Absorb small spills onto suitable absorbent. Contain large spills by diking. Flush spill area with water. Wear suitable protective clothing and boots.

**Disposal Methods:** May be supplied to biological treatment plant or incinerated.

**NOTE:** Dispose of all wastes in accordance with federal, state, and local regulations.

## VIII. SPECIAL HANDLING INFORMATION

**Ventilation and engineering controls:** Local exhaust to maintain below PEL.

**Respiratory protection (type):** None required under normal use conditions.

**Eye protection (type):** Safety glasses.

**Gloves (specify material):** Neoprene or chemical resistant gloves to prevent direct skin contact.

**Other clothing and equipment:** Rubber boots and apron.

**Work practices, hygiene practices:** Wash skin with soap and water thoroughly after handling.

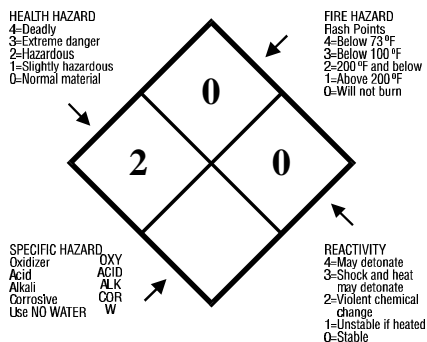
**Other handling and storage requirements:** Store away from ignition sources and in a cool, dry area.

## IX. REPORTING REQUIREMENTS & ADDITIONAL INFORMATION

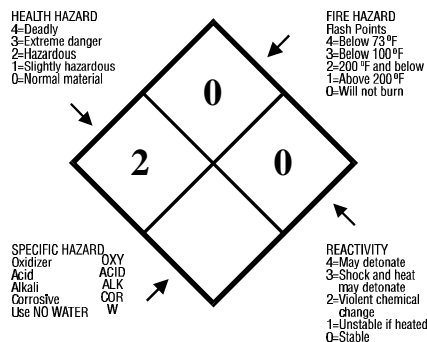
- Volatile Organic Compound (VOC) = None
- This product contains no chemicals subject to the reporting requirements of SARA Title III, Section 313.
- This product contains no Proposition 65 designated chemicals.
- This product contains is in compliance with California SCAQMD Rule 1171 as a clean up material.
- Non-photochemically reactive.
- Biodegradable, considered drain safe into all sewer systems.
- Contains no chlorinated or petroleum hydrocarbons.

NFPA 704 Code System Rating = Health 2; Flammability 0; Reactivity 0.

HMS Code System Rating = Health 2; Flammability 0; Reactivity 0.



NFPA 704 Code System



HMIS Code System