

REC'D SEP 07 1999

MSDS #N60

6117

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

**U.S. Department of Labor**

Occupational Safety and Health Administration  
(Non-Mandatory Form) CHM00144  
Form Approved

OMB No. 1218-0072 X46010096-010



**IDENTITY (As Used on Label and List)**  
HYDRO-BALANCE HYDRO-KLEEN CONCENTRATE

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**Section I** (#H-1101) H-1106, H-1155

<b>Manufacturer's Name</b> North American Research Corporation	<b>Emergency Telephone Number</b> (972) 492-1800	<b>During Transit-INFO TRAC</b> 800-535-5053
<b>Address (Number, Street, City, State, and ZIP Code)</b> P.O. Box 1318  Lewisville, TX 75067	<b>Telephone Number for Information</b> (972) 492-1800	<b>Date Prepared</b> 9/02/97
	<b>Signature of Preparer (optional)</b> <i>[Signature]</i>	

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	PEL % (optional)
Potassium Hydroxide (CAS #1310-58-3)	2mg/m <sup>3</sup> 3hr	2mg/m <sup>3</sup> 3hr	2mg/m <sup>3</sup> 3hr	<26

<b>NFPA HAZARD RATING:</b> "3" Health "0" Flammable "1" Reactivity	pH = 14	<b>SHIPPING DESCRIPTION:</b> Potassium Hydroxide Solution, 8, UN-1814, PG II
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If the hazardous ingredients are listed with an asterisk\*, the ingredient is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**Section III - Physical/Chemical Characteristics**

<b>Boiling Point</b>	200°F	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.26
<b>Vapor Pressure (mm Hg.)</b>	N/A	<b>Melting Point</b>	N/A
<b>Vapor Density (AIR = 1)</b>	N/A	<b>Evaporation Rate (Butyl Acetate = 1)</b>	Not Det.
<b>Solubility in Water</b>	Completely soluble		

**Appearance and Odor**  
Semi-viscous Yellowish-brown liquid; Bland odor

**Section IV - Fire and Explosion Hazard Data**

<b>Flash Point (Method Used)</b> Not flammable	<b>Flammable Limits</b>	<b>LEL</b> N/A	<b>UEL</b> N/A
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**Extinguishing Media**  
Use proper extinguishing media for surrounding fire where this product is stored.

**Special Fire Fighting Procedures**  
Avoid direct contact with water. Protective clothing and self-contained breathing apparatus should be worn by firefighters in areas where product is stored.

**Unusual Fire and Explosion Hazards**  
Alkaline vapors may be released during an intense fire when containers may burst.

Product will react with some metals, eg. aluminum, tin, zinc to form flammable hydrogen gas.

**Section V — Reactivity Data**

Stability	Unstable		Conditions to Avoid None
	Stable	X	

Incompatibility (Materials to Avoid)  
Do not mix or store with strong acids, aldehydes and other organic chemicals.

Hazardous Decomposition or Byproducts  
Thermal decomposition of this product will release carbon monoxide & carbon dioxide.

Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	

**Section VI — Health Hazard Data**

Route(s) of Entry:                      Inhalation?                       Skin?                       Ingestion?

Health Hazards (Acute and Chronic) Acute: corrosive to all body tissues with which it comes in contact. Chronic: multiple areas of superficial destruction of the skin or of primary irritant dermatitis may occur. Inhalation of dust, spray or mist may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness.

Carcinogenicity:                      NTP? No                      IARC Monographs? No                      OSHA Regulated? No

Signs and Symptoms of Exposure  
Will cause redness, irritation and possible skin burns upon prolonged use.

Medical Conditions  
Generally Aggravated by Exposure Existing dermatitis may be aggravated by prolonged exposure. Although this product may cause an immediate acute health hazard, delayed chronic health problems does not occur.

Emergency and First Aid Procedures  
Wash contaminated areas with plenty of water. Flush eyes for at least 15 minutes & get medical attention. INTERNAL: drink large quantities of water or milk, get medical attention.

**Section VII — Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled  
Contain liquid & prevent discharges to streams or sewer systems. Reportable quantity is 1000 pounds of Potassium Hydroxide. Spills should be cleaned up immediately.

Waste Disposal Method  
Shipment, storage and/or disposal of waste materials are regulated and action to handle spilled or released materials must meet federal, state, local, health and environmental laws and regulations.

Precautions to Be Taken in Handling and Storing  
Do not store near acids or near organic chemicals. Keep container tightly closed. Avoid excessive heat. Store in a well ventilated area.

Other Precautions  
Keep out of reach of children. For Professional use only. For Industrial and Institutional use. Avoid breathing mist or spray. Always use down wind. For outdoor use only.

**Section VIII — Control Measures**

Respiratory Protection (Specify Type)  
If TLV is exceeded use OSHA approved respirator. Use only in well ventilated areas.

Ventilation	Local Exhaust as required to maintain <TLV	Special N/A
	Mechanical (General) as required to maintain <TLV	Other N/A

Protective Gloves                      Rubber                      Eye Protection  
Chemical goggles or full face shield

Other Protective Clothing or Equipment  
Rubber apron and long sleeve shirt.

Work/Hygienic Practices  
Wash hands thoroughly after use and before eating, drinking or using restrooms.