

REC'D MAR 23 1999

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MSDS #N45

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)

Form Approved *CHM00136*
OMB No. 1218-0072 *X46010088-010*



IDENTITY (As Used on Label and List) HYDRO-BALANCE HYDROX
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-601, H-606)

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

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
*Phosphoric Acid Solution (CAS #7664-38-2)	1mg/m ³	1mg/m ³	3mg/m ³	<65

NFPA HAZARD RATING: "2" Health "0" Flammable "1" Reactivity	pH = 1	SHIPPING DESCRIPTION: Phosphoric Acid Solution, 8, UN-1805, PG III
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If the hazardous ingredients are listed with an asteric*, 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

Boiling Point 265°F	Specific Gravity (H ₂ O = 1) 1.34
Vapor Pressure (mm Hg.) @ 20°C .0285	Melting Point N/A
Vapor Density (AIR = 1) Not Det.	Evaporation Rate (Butyl Acetate = 1). N/A
Solubility in Water Complete	
Appearance and Odor Blue liquid; Odorless	

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) Not flammable	Flammable Limits	LEL None	UEL None
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Extinguishing Media
Not flammable. Use appropriate media for surrounding fire.

Special Fire Fighting Procedures
Use full protective clothing and self-contained breathing apparatus.

Unusual Fire and Explosion Hazards
Not flammable, but acidic vapors may be released when product reaches boiling point.

Although this product is not combustibile, it can react with aluminum to liberate hydrogen gas.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid Strong bases (alkalis)
	Stable	X	

Incompatibility (Materials to Avoid) Sulfides & sulfites could release toxic gases.

Hazardous Decomposition or Byproducts
Thermal decomposition >300°C, will emit toxic phosphorous oxide fumes.

Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur	X	

Section VI — Health Hazard Data

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

Health Hazards (Acute and Chronic)

Dermal contact is expected to be the primary route of occupational exposure. This product is considered to be an irritant to the skin & eyes. It may not produce an immediate burning sensation upon skin contact, delaying the awareness that contact has occurred.

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

Signs and Symptoms of Exposure

Eye and skin damage may occur at high concentrations. Oral doses are toxic at high concentrations.

Medical Conditions

Generally Aggravated by Exposure Existing dermatitis.

Emergency and First Aid Procedures

If in eyes or on skin: Remove contaminated clothing and flush with plenty of water for at least 15 minutes. If irritation persists, consult physician. Wash clothes before reuse.

Section VII — Precautions for Safe Handling and Use**Steps to Be Taken in Case Material Is Released or Spilled**

Contain spills and leaks to prevent discharge to the environment. Neutralize cautiously with lime or with soda ash.

Waste Disposal Method Consult regulatory officials for information regarding additional state & local requirements. Unneutralized phosphoric acid solution, when discarded, is hazardous waste exhibiting the characteristics of corrosivity. Its disposal is regulated by Federal RCRA.

Precautions to Be Taken in Handling and Storing

Store drums away from heat and out of direct sunlight. Keep in a well ventilated area.

Other Precautions

Read entire label before using. Keep out of reach of children. For Professional use only. For Industrial and Institutional use.

Section VIII — Control Measures**Respiratory Protection (Specify Type)**

Use NIOSH approved equipment with full facepiece when airborne exposure limits are exceeded.

Ventilation	Local Exhaust	Yes	Special	N/A
	Mechanical (General)	Yes	Other	N/A

Protective Gloves Rubber Eye Protection Chemical safety goggles or safety glasses with side shields

Other Protective Clothing or Equipment

Aprons are recommended where splashing is likely.

Work/Hygienic Practices

Provide safety shower & eyewash stations where splashing may occur. Wash hands after use & before eating or drinking. Do not smoke in work area.