

SAFETY DATA SHEET

GHS format

SECTION 1 IDENTIFICATION

Product Name: Hydrox, Hydro-Balance**Product Number(s):** H-601, H-605, H-655**Product Use:** Scale remover**Restrictions on use:** Not determined**Distributed by:** Hydro-Balance Corporation**Manufactured by:** North American Research Corporation

P.O. Box 1318

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Lewisville, TX 75067

Lewisville, TX 75056

Telephone Numbers: (972) 492-1800, (800) 527-7520, Fax (972) 394-6755**Emergencies:** Infotrac (24 hours, everyday) (800) 535-5053 (US & Canada) 1 (352) 323-3500 (International)

SECTION 2 HAZARD(S) IDENTIFICATION

Classification: Corrosive to metals Category 1
 Skin corrosion/irritation Category 1B
 Serious eye damage/eye irritation Category 1

Signal Word: Danger**Hazard statement(s):** May be corrosive to metals. Causes serious skin burns and eye damage. Harmful if swallowed.

Precaution(s): Keep only in original container. Do not breathe mist, vapors, or spray. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves, protective clothing, eye protection, and face protection.
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 Immediately call a POISON CENTER or doctor/physician.
 Store locked up. Dispose of contents and container in accordance with all local, regional, and national regulations.

Other Hazards: Mix only with water. Do not mix with any other product or chemical. Will react with some metals, such as aluminum, tin, or zinc, to form flammable hydrogen gas.

Symbol(s):



SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Registry No.	Weight %
Phosphoric acid	7664-38-2	60 – 70

If the specific chemical identity and/or the exact percentage of an ingredient is not specified, the information has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES

Immediately call a POISON CENTER or doctor/physician.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.**Skin contact:** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.**Ingestion:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.**Most important symptoms/effects:** Skin burns and eye burns.**Indication of immediate medical attention and special treatment needed, if necessary:****Notes to physician:** Treat symptomatically.**Specific treatments:** No specific treatment.

SECTION 5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

This product is not flammable. Extinguish fire using agent suitable for surrounding fire.

Specific hazards arising from the chemical:

Will react with some metals, such as aluminum, tin, or zinc, to form flammable hydrogen gas.

Special protective equipment for fire-fighters: Use appropriate equipment for surrounding fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precaution, protective equipment and emergency procedures: Put on appropriate personal protective equipment (see section 8).**Methods and materials for containment and cleaning-up:** Soak up with inert, absorbent material. Sweep up and shovel into suitable containers for proper disposal. Use a water rinse for final cleanup.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Wear appropriate personal protective equipment (PPE) to prevent contact with product. Mix only with water. Do not mix with any other product or chemical. Avoid breathing vapors, mist, and spray. Use with adequate ventilation. Immediately wash with water any contact or suspected contact with this product. Wash hands, face, and any exposed skin thoroughly after handling. Launder contaminated clothing before reuse. For commercial and industrial use only by professionals trained in the field of HVACR. Do not spray on electrical connections. Empty container may contain product residue which may exhibit hazards of product. Triple rinse container before proper disposal.

Conditions for safe storage, including any incompatibilities: KEEP OUT OF REACH OF CHILDREN. Store locked up. Keep tightly closed in original container. Do not store near potential sources of ignition. Store in a cool, dry, ventilated area. Protect container against physical damage. Tip: For storage on service truck, place container inside of plastic pail and immobilize pail. See section 10 for incompatible materials.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical name</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>NIOSH REL</u>
Phosphoric acid	7664-38-2	TWA: 1 mg/m ³	STEL: 3 mg/m ³	TWA: 1 mg/m ³

Appropriate engineering controls: Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

Individual protection measures (PPE):

Eye protection: Chemical splash goggles or face shield

Hand protection: Chemical-resistant gloves. Nitrile, neoprene, or other suitable material.

Skin and body protection: If major exposure is possible, wear suitable protective clothing and footwear.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be implemented whenever workplace conditions warrant use of a respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue liquid	U/L flammability or explosive limits	Not determined
Odor	Essentially odorless	Vapor pressure	Not determined
Odor threshold	Not determined	Vapor density	Not determined
pH	1	Relative density (specific gravity)	1.4 – 1.5
Melting point/freezing point	Not determined	Solubility(ies)	100% in water
Initial boiling point and boiling range	Approximately 127°C / 260°F	Partition coefficient: n-octanol/water	Not determined
Flash point	Not flammable	Auto-ignition temperature	Not determined
Evaporation rate	Not determined	Decomposition temperature	Not determined
Flammability (solid, gas)	Not determined	Viscosity	Not determined

SECTION 10 STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable.

Possibility of hazardous reactions: Will react with some metals, such as aluminum, tin, or zinc, to form flammable hydrogen gas.

Conditions to Avoid: Incompatible materials, excessive heat and fire.

Incompatible materials: Will react with some metals, such as aluminum, tin, or zinc, to form flammable hydrogen gas. Reactive with oxidizing agents, strong alkalis, sulfides, and sulfites.

Hazardous decomposition products: When exposed to fire, produces normal products of combustion.

SECTION 11 TOXICOLOGICAL INFORMATION**Information on likely routes of exposure:**

Eye Irritation: Causes severe eye damage.

Skin Irritation: Causes severe skin burns.

Inhalation: May cause irritation and corrosive effects to nose, throat, and respiratory tract. Symptoms may include coughing and difficulty breathing.

Ingestion: Causes burns / serious damage to mouth, throat, and stomach.

Sensitization: No known effects.

Numerical measure of toxicity, component information:

<u>Chemical name</u>	<u>CAS</u>	<u>Oral LD₅₀</u>	<u>Dermal LD₅₀</u>	<u>Inhalation LC₅₀</u>
Phosphoric acid	7664-38-2	1530 mg/kg (rat)	–	–

CHRONIC:

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity: No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

Teratogenicity: No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Persistence and degradability: The product is readily degradable in the environment.

Bioaccumulation potential: The phosphorous element is an essential nutrient for flora and fauna.

Mobility in soil: No information available.

Other adverse effects: No known significant effects or critical hazards.

SECTION 13 DISPOSAL CONSIDERATIONS

Unused product: This product, as sold, if discarded or disposed, is a hazardous waste according to federal regulations. Dispose of container and contents in accordance with local, regional, national and international regulations.

Contaminated containers or packaging: Do not reuse empty containers. Triple rinse containers and offer for recycle where available. Dispose of packaging or containers in accordance with local, regional, national and international regulations.

RCRA Hazard Class: D002 Corrosive.

SECTION 14 TRANSPORT INFORMATION

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT (ground), IMDG	Limited Quantity NOTE: For inner packagings not over 5.0 L (1.3 gallon) and packages not exceeding 30 kg (66 pounds) gross weight.			
DOT (ground), IMDG	Phosphoric acid solution, Limited Quantity NOTE: For containers over 5.0 L (1.3 gallons)	UN1805	III	8
IATA	Not suitable for air shipment as packaged from the factory.			

SECTION 15 REGULATORY INFORMATION

TSCA: All components of this product are on the U.S. Toxic Substances Control Act (TSCA) Chemical Substances Inventory or are exempt.

CERCLA: Phosphoric acid (7664-38-2); RQ 5000 lbs.

SARA TITLE III:

Section 311/312 Hazard Category: Acute: Yes Chronic: No Fire: No Reactive Hazard: No

Section 313 Reportable Ingredients: No reportable ingredients.

CALIFORNIA (Proposition 65): No reportable ingredients.

SECTION 16 OTHER INFORMATION

Date Prepared: Apr. 24, 2015 **Replaces:** Aug. 07, 2013

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