

## Material Safety Data Sheet pH-Down

### Section 1. Chemical Product and Company Identification

<b>Product Name</b>	pH-Down	
<b>Product Number</b>	NTA PHD	
<b>Manufacturer/ Supplier</b>	NuTech Specialties, Inc. 9811 So. 6150 W. West Jordan, UT 84088	
<b>Phone Number</b>	(801) 253-1000 (Mon-Fri/ 8am- 5pm MT)	
<b>D.O.T. Emergency Phone:</b>	1-800-633-8253	
<b>Date of Preparation</b>	October 22, 2012	<b>Revision Number</b> 1.0

### Section 2. Hazards Identification

**Emergency overview**                      **This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**

**DANGER!**

Keep out of reach of children.  
Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the work-station location. S24/25- Avoid contact with skin and eyes.

**Potential Acute Health Effects**                      Corrosive to skin and eyes on contact, liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, Characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death.

**Routes of Entry**                      Eye Contact, Skin contact, Ingestion, INHALATION.

**Eyes**                                      May cause irritation

**Skin**                                        Acute exposure can cause burns and be destructive to skin

**Inhalation**                              Inhalation may severely burn respiratory Tract

**Ingestion**                                May cause irritation.

**Medical conditions aggravated by exposure:**                      Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

**Potential Chronic Health**                      Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

**Carcinogenic Effects**                      Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

**Target Organs**

**Environmental Effects**                      Not available

### Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Hydrochloric Acid	7647-01-0	<90%		5/5
The balance of components are proprietary and not considered hazardous				

### Section 4. First Aid Measures

<b>Eye Contact</b>	Call physician immediately, preferably and ophthalmologist. Eye contact can result in corneal damage or blindness. Immediately flush eyes with running water for at least 15 to 20 minutes, keeping eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. To alleviate pain until physician arrives 2 drops of 0.5% "Pontocaine" hydrochloride solution into eye. No oils or oily ointments should be used unless directed by doctor.
<b>Skin Contact</b>	Remove contaminated clothing and shoes. Wash gently and thoroughly the contaminated skin with running water and non abrasive soap for 15 to 20 minutes. See a physician
<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. If breathing is difficult, give oxygen. Call poison control center or seek medical attention if symptoms persist.
<b>Ingestion</b>	Do not induce vomiting. Drink large quantities of water as soon as possible followed by milk or 2 oz of milk magnesia to drink to soothe the burning effect. Do not give anything by mouth to an unconscious person Call physician immediately. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
<b>General Advice</b>	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).
<b>Notes to Physician</b>	Not available

### Section 5. Fire Fighting Measures

<b>Flammability</b>	No specific information is available in our database regarding the flammability of this product is presence of various materials.
<b>Fire Fighting Media and instructions</b>	Not available
<b>Products of Combustion</b>	Not available
<b>Special Remarks on Fire Hazards</b>	Product is non-Flammable, However, it can react with metals to produce hydrogen, a flammable gas
<b>Special Remarks on Explosion Hazards</b>	Product is non-Flammable, However, it can react with metals to produce hydrogen, a flammable gas
<b>Sensitivity to Mechanical Impact</b>	Not available
<b>Sensitivity to Static Discharge</b>	Not available
<b>Protection of Fire Fighters</b>	The amount of HF vapor released from ruptured containers will be increased by heat. In such case full protective equipment might be needed. Usual fire and explosion hazards: Product is non-flammable; however it can react with metals to produce hydrogen, a flammable gas.

## Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Face shield. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Methods for Containment</b>	Corrosive liquid. Avoid to runoff to sewers and waterways. Water protective clothing. Absorb with inert material. Contact your local Emergency planning commission for further instructions. Absorb with an inert material and put the spilled material in an appropriate waste disposal.
<b>Environmental Precautions</b>	<b>See Methods for Containment</b>
<b>Methods for Clean Up</b>	Do not breathe vapor, get in eyes, on skin, or on clothing. Keep personnel upwind of spill and do not enter area unless equipped with full protective equipment and self contained breathing apparatus.

## Section 7. Handling and Storage

<b>Precautions</b>	Keep locked up. Keep container dry. DO NOT INGEST. Do not breath the gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes. After handling, always wash hands thoroughly with soap and water.
<b>Incompatibility</b>	Strong alkalis, most metal, bleach. Alkalis incompatible with chlorinated solvents. Incompatible with alcohols and wide variety of metals
<b>Storage</b>	Corrosive materials should be stored in a separate safety storage cabinet or room. Not for use or storage in or around the home. Keep out of reach of children. For Institutional and Commercial Use

Keep out of reach of children.

Keep container closed during storage. Ensure that eyewash stations and safety showers are proximal to the work station location. S24/25- Avoid contact with skin and eyes.

## Section 8. Exposure Controls/Personal Protection

### Engineering Controls

**Personal Protection** Good general ventilation should be sufficient to control airborne levels.

**Eyes** Splash goggles or Face Shield.

**Body** Additional body garments are highly recommended to be used such as apron and rubber boots.

**Respiratory** Wear appropriate respirator when ventilation is inadequate.

**Hands** Impervious gloves

### Protective Clothing (Pictograms)



**Exposure Limits**

Consult local authorities for acceptable exposure limits.

### Section 9. Physical and Chemical Properties

<b>Physical State and Appearance</b>	Clear Liquid
<b>Molecular Weight</b>	N/A
<b>Ph</b>	1
<b>Boiling/Condensation Point</b>	123 F-183 F
<b>Melting/Freezing Point</b>	N/A
<b>Critical Temperature</b>	N/A
<b>Instability Temperature</b>	N/A
<b>Specific Gravity</b>	(H2O = 1): N/A
<b>Vapor Pressure</b>	(Non-Aerosols)(mm Hg and Temperature): 30mm HG @ 25 DOG C
<b>Vapor Density</b>	(Air = 1) 1.3
<b>Volatility</b>	N/A
<b>VOC</b>	N/A
<b>Evaporation Rate</b>	(H2O = 1): <1
<b>Dispersion Properties</b>	N/A
<b>Solubility</b>	Complete in water
<b>The Product is:</b>	
<b>Auto-ignition Temperature</b>	N/A
<b>Flash Points</b>	N/A
<b>Flammable Limits</b>	Not applicable
<b>Fire Hazards in Presence Of Various Substances</b>	Product is non-Flammable, however, it can react with metals to produce hydrogen, a flammable gas
<b>Explosion Hazards in Presence of Various Substances</b>	Product is non-Flammable, however, it can react with metals to produce hydrogen, a flammable gas
<b>Odor</b>	Acidic
<b>Color</b>	Red

### Section 10. Stability and Reactivity Data

<b>Stability</b>	The product is stable.
<b>Incompatibility with</b>	Strong alkali materials and oxidizing agent, cyanide, sulfides, formaldehyde.
<b>Hazardous Decomposition Products</b>	Will not occur.

## Section 11. Toxicological Information

<b>Routes of Entry</b>	Skin Contact. Ingestion. Eye Contact.
<b>Toxicity to Animals</b>	
<b>Acute Effects on Humans</b>	
<b>Eyes</b>	May cause irritation
<b>Skin</b>	Acute exposure can cause burns and be destructive to skin
<b>Inhalation</b>	Inhalation may severely burn respiratory Tract
<b>Ingestion</b>	May cause irritation.
<b>Chronic Effects on Humans</b>	Prolonged exposure may result in skin burns and ulcerations. Severe over-exposure can produce lung damage, choking, unconsciousness or death.
<b>Special Remarks on Toxicity to Animals</b>	No additional remark
<b>Special Remarks on Chronic Effects on Humans</b>	No additional remark

## Section 12. Ecological Information

<b>Ecotoxicity</b>	Not available
<b>BOD5 and COD</b>	Not available
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	Not available
<b>Special Remarks on the Products of Biodegradation</b>	Not available

## Section 13. Disposal Considerations

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Stream</b>	Neutralize with lime and flush with water. Run off to sewer may create a hazard in the case of large spills; notify authorities.

## Section 14. Transport Information

DOT (U.S.A.)  
(Pictograms)



TDG Classification

**PIN UN, Proper Shipping Name, PG** Shipping Name: Corrosive liquids N.O.S. UNNA: 1760 PG: II

**Maritime Transportation** Not available  
**Special Provisions for Transport** Not available

**Section 15. Regulatory Information and Pictograms**

**Regulatory Lists** No products were found

**Other Regulations** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications** **HCS (U.S.A.)** HCS Class: Corrosive Liquid. HCS Class: Toxic.

**USA Regulatory Lists** This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL)  
 SARA 302 Extremely Hazardous Substances - Not listed  
 SARA 311 - 1. Immediate (acute) health hazard  
 SARA 313 Toxic Chemical List – Listed

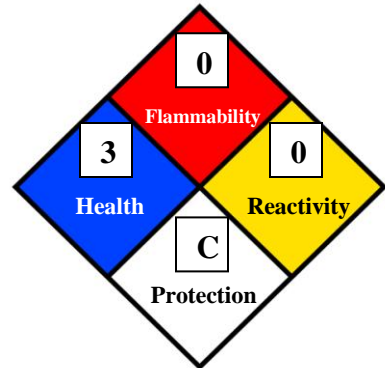
**DSD (EEC)** R22- Harmful if swallowed.  
 R35- Causes severe burns.

**International Regulations Lists** No Products were found.

**Hazardous Material Information System (U.S.A.)**



**National Fire Protection Association (U.S.A.)**



**WHMIS (Classification)** WHMIS CLASS E: Corrosive Liquid. WHMIS CLASS D-1: Material causing immediate and serious toxic effects.

The Hazard Ranking systems presented on this MSDS sheet provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

**Section 16. Other Information**

**Expiry Date** 3 (Three Years) from the date of preparation indicated in Section 1.

**Validated by** \_\_\_\_\_ **Verified by** \_\_\_\_\_  
**Printed** \_\_\_\_\_

**Information Contact**

Notice to Reader:

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**Validated on** \_\_\_\_\_ **NuTech Specialties, Inc.**