



Serving Our Customers Since 1975

# SAFETY DATA SHEET

Issue Date: 7 October 2015

Revision Date: 7 October 2015

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product Name: **pH MINUS**

Product Description: **HOLDS CONSTANT pH**

### Other Means of Identification

Product # A260, A261  
Synonyms None

### Details of the Supplier of the Safety Data Sheet

Company Name CHEMCO INDUSTRIES, INC.  
5731 Manchester Avenue  
St. Louis, MO 63110  
www.chemcoindustries.com  
314-647-1888  
1-800-854-4236 (to Reorder)

### Emergency Telephone Number

Emergency Telephone INFOTRAC 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

### Classification (GHS-US)

Met. Corr. 1 H290  
Skin Corr. 1B H314  
STOT SE 3 H335

\*Full text of H-phrases: see section 16

### GHS-US Labeling

#### Hazard pictograms (GHS-US):



Signal Word (GHS-US): **Danger**

#### Hazard Statements (GHS-US):

May be corrosive to metals  
Causes severe skin burns and eye damage  
May cause respiratory irritation

#### Precautionary statements (GHS-US):

Keep only in original container  
Do not breathe mist, spray  
Avoid breathing mist, spray  
Wash thoroughly after handling  
Use only outdoors or in a well-ventilated area  
Wear eye protection, protective clothing, protective gloves  
If swallowed: rinse mouth. Do NOT induce vomiting  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If inhaled: Remove person to fresh air and keep 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 doctor, a POISON CENTER

Call a doctor, a POISON CENTER if you feel unwell  
 Specific treatment (see First aid measures on this label)  
 Wash contaminated clothing before reuse  
 Absorb spillage to prevent material damage  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up  
 Store in corrosive resistant container with a resistant inner liner  
 Dispose of contents/container to comply with local/regional/national/international regulations.

**Other hazards:** No additional information available

**Unknown acute toxicity (GHS-US):** Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance:** Not applicable

\*Full text of H-phrases: see section 16

**Mixture:**

Name	Product identifier	%	Classification (GHS-US)
Hydrogen chloride	(CAS No) 7647-01-0	10 - 30	Met. Corr.1 H290 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation, mist) H332 Skin Corr. 1B, H314 STOT SE 3, H335
UNDECETH-5	(CAS No) 34398-01-1	1.0 - 5.0	Acute tox. 4 (Oral), H302 Eye Dam. 1, H318

### 4. FIRST AID MEASURES

**Description of first aid measures:**

**First-aid measures general:**

**First-aid measures after inhalation:**

**First-aid measures after skin contact:**

**First-aid measures after eye contact:**

**First-aid measures after ingestion:**

If you feel unwell, seek medical advice (show the label where possible)  
 Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 If experiencing respiratory symptoms: Call a poison center or a doctor.  
 Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.  
 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  
 Fatal if swallowed. Immediately call a poison center or doctor/physician. Rinse mouth.  
 Do NOT induce vomiting. Drink plenty of water.

**Most important symptoms and effects, both acute and delayed:**

**Symptoms/injuries:**

**Symptoms/injuries after inhalation:**

**Symptoms/injuries after skin contact:**

**Symptoms/injuries after eye contact:**

**Symptoms/injuries after ingestion:**

Causes severe skin burns and eye damage.  
 Corrosive to the respiratory tract.  
 Caustic burns/corrosion of the skin.  
 Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.  
 Fatal if swallowed. Burns to the gastric/intestinal mucosa.

**Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:**

**Suitable extinguishing media:**

All extinguishing media allowed.

**Special hazards arising from the substance or mixture:**

**Reactivity:**

Thermal decomposition generates: Carbon monoxide. Carbon dioxide. HCl. Chlorine.

**Advice for firefighters:**

**Firefighting instructions:**

Exercise caution when fighting any chemical fire. Use water moderately and if possible collect or contain it. Use water spray or fog for cooling exposed containers.

**Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

**General measures:** Isolate from fire, if possible, without unnecessary risk.

#### **For non-emergency personnel:**

Protective equipment: Gloves. Protective goggles. Face-shield. Protective clothing.

Emergency procedures: Evacuate unnecessary personnel. Avoid contact with skin, eyes, and clothing. Ventilate spillage area.

#### **For emergency responders:**

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Stop leak if safe to do so. Stop release. Ventilate area.

### Environmental precautions:

Avoid release to the environment. Prevent soil and water pollution.

### Methods and material for containment and clean up:

**For containment:** Contain released substance, pump into suitable containers

**Methods for cleaning up:** This material and its container must be disposed of in a safe way, and as per local legislation.

### Reference to other sections:

No additional information available.

## 7. HANDLING AND STORAGE

### Precautions for safe handling:

#### **Additional hazards when processed:**

Do not spray to create mists. Do not heat to create vapors.

**Precautions for safe handling:** Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.

#### **Hygiene measures:**

Wash thoroughly after handling. Wash contaminated clothing before reuse.

### Conditions for safe storage, including any incompatibilities:

**Technical measures:** Comply with applicable regulations.

**Storage conditions:** Keep container closed when not in use. Store in original container.

**Incompatible products:** Alkaline substances. Metals and metal salts.

**Incompatible materials:** Chlorine-based bleaching agents. Ammonia

**Storage area:** Keep only in the original container. Store in a dry area. Store in a cool area.

**Special rules on packaging:** Keep only in original container. Meet the legal requirements.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters:

Hydrogen chloride (7647-01-0)		
ACGIH	ACGIH Ceiling (ppm)	2 ppm

### Exposure controls:

#### **Personal protective equipment:**

Use appropriate personal protective equipment when risk assessment indicates this is necessary. Glove. Safety glasses. Protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

Physical state	Liquid
Appearance	Clear, green liquid
Odor	acidic
Odor threshold	No data available
pH	1
Melting point	No data available
Freezing point	No data available
Boiling point	No data available

Flash point	> 200 F Closed Cup
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	No data available
Explosion limits	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapor pressure	No data available
Relative density	No data available
Relative vapor density at 20 C	No data available
Specific gravity/density	1.1 g/ml
Solubility	Soluble in water
Log Pow	No data available
Log Kow	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
VOC content	< 0.5%

## 10. STABILITY AND REACTIVITY

### **Reactivity:**

Thermal decomposition generates: Carbon monoxide. Carbon dioxide. HCl. Chlorine.

### **Chemical stability:**

No additional information available.

### **Possibility of hazardous reactions:**

Thermal decomposition generates: Carbon monoxide. Carbon dioxide. HCl. Chlorine.

### **Conditions to avoid:**

No additional information available.

### **Incompatible materials:**

May be corrosive to metals. Metals

### **Hazardous decomposition products:**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. TOXICOLOGICAL INFORMATION

### **Information on toxicological effects:**

**Acute toxicity:** Not classified

<b>UNDECETH-5 (34398-01-1)</b>	
LD50 oral rat	> 1400 mg/kg
<b>Hydrogen chloride (7647-01-0)</b>	
LD50 oral rat	700 mg/kg
LC50 inhalation rat	1.68 mg/l

**Skin corrosion/irritation:** Causes severe skin burns and eye damage.

pH: 1

**Serious eye damage irritation:** Not classified.

pH: 1

**Respiratory or skin sensitization:** Not classified.

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified

<b>Hydrogen chloride (7647-01-0)</b>	
IARC group	3 - Not Classifiable

**Reproductive toxicity:** Not classified

**Specific target organ toxicity (single exposure):** May cause respiratory irritation.

**Specific target organ toxicity (repeated exposure):** Not classified

<b>Aspiration hazard:</b>	Not classified.
<b>Symptoms/injuries after inhalation:</b>	Corrosive to the respiratory tract.
<b>Symptoms/injuries after skin contact:</b>	Caustic burns/corrosion of the skin.
<b>Symptoms/injuries after eye contact:</b>	Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
<b>Symptoms/injuries after ingestion:</b>	Fatal if swallowed. Burns to the gastric/intestinal mucosa.

## 12. ECOLOGICAL INFORMATION

### **Toxicity:**

<b>UNDECETH-5 (34398-01-1)</b>	
LC50 fish 1	< 10 mg/l
EC50 Daphnia 1	< 10 mg/l
ErC50 (algae)	< 10 mg/l

### **Persistence and degradability:**

<b>Hydrogen chloride (7647-01-0)</b>	
Persistence and degradability	No (test) data on mobility of the components available

### **Bioaccumulative potential:**

<b>Hydrogen chloride (7647-01-0)</b>	
Bioaccumulative potential	No test data of component(s) available.

## 13. DISPOSAL CONSIDERATIONS

### **Waste treatment methods:**

**Waste disposal recommendations:** Dispose in a safe manner in accordance with local/national regulations.

## 14. TRANSPORT INFORMATION

### **Department of Transportation (DOT)**

<b>Transport document description :</b>	UN1789 Hydrochloric acid, 8, II
<b>UN-No.(DOT):</b>	UN1789
<b>Proper Shipping Name (DOT):</b>	Hydrochloric acid
<b>Transport hazard class(es) (DOT):</b>	8 - Class 8 - Corrosive material 49 CFR 173.136
<b>Hazard labels (DOT):</b>	8 - Corrosive
<b>Packing group (DOT):</b>	II - Medium Danger
<b>DOT Packaging Non Bulk (49 CFR 173.xxx):</b>	202
<b>DOT Packaging Bulk (49 CFR 173.xxx):</b>	242
<b>DOT Special Provisions (49 CFR 172.102):</b>	A3, A6, B3, B15, IB2, N41, T8, TP2, TP12
<b>DOT Packaging Exceptions (49 CFR 173.xxx):</b>	154
<b>DOT Quantity Limitations Passenger aircraft/rail (49 CFR 175.27):</b>	1 L
<b>DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75):</b>	30 L
<b>DOT Vessel Stowage Location:</b>	C

### **Additional information:**

**Other information:** No supplementary information available

### **ADR:**

No additional information available.

### **Transport by sea:**

No additional information available.

### **Air Transport:**

No additional information available.

## 15. REGULATORY INFORMATION

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Hydrogen chloride	CAS No 7647-01-0	10 - 30
-------------------	------------------	---------

<b>UNDECETH-5</b>	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
<b>Hydrogen chloride (7647-01-0)</b>	
Not listed on SARA Section 313 (Specific toxic chemical listings) Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EOA's List of Lists)	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb

**California Proposition 65** - This product contains, or may contain, trace quantities of a substance(s) known to the State of California to cause cancer and /or reproductive toxicity.

## 16. OTHER INFORMATION

**Training advice:** Normal use of this product shall imply use in accordance with the instructions on the packaging.

### Full text of H-phrases:

Acute Tox. 4 (Inhalation: dust, mist)	Acute toxicity (Inhalation: dust, mist) Category 4
Acute Tox. (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation

**NFPA health hazard:** 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given

**NFPA fire hazard:** 0 - Materials that will not burn.

**NFPA reactivity:** 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.

### Disclaimer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendee or users assume all risks associated with the use of this material.