



SAFETY DATA SHEET

Stop Solution

Section 1: Chemical and Company Identification

Product Name: Stop Solution

MSDS Name: Hydrochloric Acid, 3.12%

Recommended use: Laboratory Chemicals

Company Identification: Beacon Analytical Systems, Inc.
82 Industrial Park Road
Saco, ME 04072

Date: 4/20/2015

Emergency Number: 207-571-4302

Revision Date: 5/2/2018

Section 2: Hazards Identification

GHS Classification

Signal Word: Danger



Serious eye damage/eye irritation 1 H318 Causes serious eye damage.

Corrosive to metals 1 H290 May be corrosive to metals.



STOT RE 2

H373 May cause damage to organs through prolonged or repeated exposure.



Acute Toxicity 4

H302 Harmful if swallowed.

Skin corrosion/irritation 2 H315 Causes skin irritation.

Precautionary statements:

Prevention:

P260- Do not breathe dust/fumes/gas/mist/vapor/spray.

P264- Wash skin thoroughly after handling.

P270- Do not eat drink, or smoke when using this product.

P280- Wear protective gloves/eye/face protection.

P234- Keep only in original container.

Response:

General

P308+P314- IF exposed or concerned: Get medical advice/attention if you feel unwell.

Skin

P302+P352+P362+P364+P332+P313- IF ON SKIN: Wash with plenty of soap and water.

Take off contaminated clothing and wash before reuse.

If skin irritation occurs: Get medical advice/attention.

Eyes

P305+P351+P338+P310- 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.

Ingestion

P301+P312+P330- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

Storage

P406- Store in corrosive resistant polypropylene container with a resistant inner liner.

Disposal

P501- Dispose of contents/container to an approved waste disposal plant.

Other Classification Systems:

NFPA ratings (scale 0-4):

Health= 2

Fire= 0

Reactivity= 0

HMS ratings (scale 0-4)

Health= 2

Fire= 0

Reactivity= 0

Other hazards:

PBT: N/A

vPvB: N/A

Section 3: Composition/information on ingredients

Chemical characterization: Mixtures

<u>CAS#</u>	<u>Chemical Name</u>	<u>%</u>	<u>EC#</u>
7647-01-0	Hydrogen chloride	2 – 4%	231-595-7
111-46-6	Diethylene glycol	2 – 4%	203-872-2

Section 4: First Aid Measures

- **General information:**
Immediately remove any clothing soiled by the product.
- **If inhaled:**
Supply fresh air and seek medical attention.
- **In case of skin contact:**
Immediately wash skin with soap and copious amounts of water.
- **In case of eye contact:**
Flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical advice.
- **If ingested:**
Give large amounts of water and induce vomiting if the person is conscious. Seek medical attention.
- **Most important symptoms/effects, acute and delayed:**
No Information available.
- **Indication of immediate medical attention and special treatment needed:**
No information available.

Section 5: Fire Fighting Measures

- **Suitable extinguishing media:**
N/A
- **Special hazards arising from substance or mixture:**
N/A
- **Advice for firefighters**
- **Protective equipment:**
N/A

Section 6: Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
Use personal protective equipment.
- **Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/surface or ground water.
- **Methods and materials for containment and cleaning up:**
Sweep up, place in a bag, and hold for waste disposal.
Assure adequate ventilation.
Wash spill site after cleanup is complete.

Section 7: Handling and Storage

- **Precautions for safe handling:**
Ensure good ventilation/exhaustion.
Prevent formation of aerosols.
- **Conditions for safe storage, including any incompatibilities:**
- **Requirements to be met by storerooms and receptacles:**
N/A
- **Information about storage in one common storage facility:**
N/A
- **Further information about storage conditions:**
Keep receptacle tightly sealed.

Section 8: Exposure Controls/Personal Protection

- **Control Parameters**
Components with limit values that require monitoring at the workplace:
7647-01-0 Hydrogen chloride

PEL Short-term value: C 7 mg/m³, C 5 ppm

REL Short-term value: C 7 mg/m³, C 5 ppm

TLV Short-term value: C 2.98 mg/m³, C 2 ppm

111-46-6 Diethylene glycol

TWA: 10.00 mg/m³

Components with biological limit values:
N/A
- **Appropriate engineering controls:**
Ensure adequate ventilation.
Ensure eyewash stations are close to the workstation.
- **Individual protection measures:**
General protective and hygienic measures:
Keep away from food, beverages, and feed.
Immediately remove any soiled and contaminated clothing.
Avoid contact with eyes and skin.
Breathing equipment:
Good general ventilation should be sufficient to control airborne levels.
Eye Protection:
Safety glasses, eye wash station.
Skin and body Protection:
Protective gloves, lab coat.

Section 9: Physical and Chemical Properties

- **Physical state:** Liquid
- **Color:** Colorless
- **Odor:** No odor
- **Odor threshold:** No information available.
- **pH:** No information available.
- **Melting point/range:** No information available.
- **Boiling point/range:** 100 °C/ 212 °F
- **Flash point:** N/A
- **Evaporation rate:** No information available.
- **Flammability (solid, gaseous):** N/A
- **Upper/ Lower explosive limits:**

Lower: No information available.

Upper: No information available.

- **Vapor pressure (at 20 °C):** 23 hPa
- **Vapor density:** No information available.
- **Relative density:** No information available.
- **Solubility(ies):**
Water: fully miscible
- **Partition coefficient(n-octanol/water):** No information available.
- **Autoignition temperature:** Product is not self igniting.
- **Decomposition temperature:** No information available.

Section 10: Stability and Reactivity

- **Chemical Stability:**
Stable under normal conditions.
- **Possibility of hazardous reactions:**
No dangerous reactions known.
- **Conditions to avoid:**
No information available.
- **Incompatible materials:**
No information available.
- **Hazardous decomposition products:**
No dangerous decomposition products known.

Section 11: Toxicological Information

To the best of our knowledge, the chemical, physical, and toxicological properties of this product have not been thoroughly investigated. The following refers to the hazardous ingredient(s) of the product. Other harmful effects cannot be excluded.

- **Acute toxicity**
LD/LC 50 values:
7647-01-0 Hydrogen chloride
Oral LD50: 900 mg/kg (rabbit)
111-46-6 Diethylene glycol
Oral LD50: 12,565 mg/kg (rat)
Oral LD50: 1,000 mg/kg (human)
Dermal LD50: 11,890 mg/kg (rabbit)
- **Chronic Toxicity**
Irritation:
Irritating to the skin, eyes, and mucous membranes.
Sensitization:
No sensitizing effects known.
Carcinogenicity:
No information available.
Mutagenic effects:
No information available.
Reproductive effects:
No information available.
Developmental effects:
No information available.
Teratogenicity:
No information available.

Section 12: Ecological Information

- **Aquatic toxicity:**

Water hazard class 1: slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach sewage system or ground water.

- **Terrestrial toxicity:**
No information available.
- **Persistence and degradability:**
No information available.
- **Bioaccumulative potential:**
No information available.
- **Mobility in soil:**
No information available.
- **Other adverse effects:**
No information available.

Section 13: Disposal Considerations

Dispose in accordance with all federal, state and local environmental regulations.

Section 14: Transport Information

UN-Number

DOT, ADR, ADN, IMDG, IATA:

Void

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA:

Void

Transport hazard class

DOT, ADR, ADN, IMDG, IATA:

Void

Packing group

DOT, ADR, ADN, IMDG, IATA:

Void

Environmental hazards

Marine Pollutant: No

Special precautions for user:

N/A

Section 15: Regulatory Information

N/A

Section 16: Other Information

For research use only, not for human or veterinary clinical use.

DISCLAIMER: This document is believed to be accurate, but does not purport to be all-inclusive and should be used only as a guide. Beacon Analytical Systems, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should be not be confused with state, municipal, or insurance requirements, and constitutes NO WARRANTY.

5/2/2018 2:04 PM