
1. PRODUCT AND COMPANY IDENTIFICATION

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|--------------|--|
| Product name | Hydrochloric Acid |
| Synonyms | None |
| Grade | ACS, HPLC, Pesticide, Anapremium, Dehydrous, LCMS, Tracemetal, Tracematal plus |
| Company | Anaqua Chemicals Supply 1510 Eldridge Parkway, Suite 110-268 Houston, TX 77077, USA |
| Telephone | (281) 668-0032 |
| Fax | (281) 668-0033 |

2. COMPOSITION/ INFORMATION ON INGREDIENTS

| | |
|---------------|--------------|
| Formula | HCl |
| CAS-No. | 7647-01-0 |
| Index-No. | 017-002-01-X |
| EC-No. | 231-595-7 |
| Concentration | > 99 % |

3. HAZARDS IDENTIFICATION**GHS Classification**

| | |
|---|-------------|
| Skin Corrosion | Category 1B |
| Specific target organ toxicity- single exposure | Category 3 |

According to European Directive 67/548/EEC as amended.

Causes burns. Irritating to respiratory system.

4. FIRST AID MEASURES

| | |
|-------------------|--|
| Inhalation | If breathed in, move to fresh air. If not breathing, give artificial respiration. Consult a physician. |
| Ingestion | Rinse mouth with water. Consult a physician immediately. |
| Skin Contact | Immediately wash off with plenty of water for at least 15 minutes. Consult a physician. |
| Eye Contact | Rinse through with plenty of water for at least 15 minutes. Consult a physician. |
| Note to Physician | Treat symptomatically |

5. FIRE-FIGHTING MEASURES

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| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment |
| Specific hazards during fire fighting | Hydrogen chloride gas |
| Special protective equipment for fire-fighters | Wear self contained breathing apparatus for fighting if necessary. The product itself does not burn |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------|--|
| Personal precautions | Use personal protective clothing and ventilation equipments. Avoid breath in vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not release into drains. |
| Methods for cleaning up | Soak up with inert absorbent material and dispose in suitable, closed containers. |

7. HANDLING AND STORAGE

| | |
|----------|--|
| Handling | Wear personal protective equipments. Avoid breath in vapors, mist or gas. Avoid contact with skin and eye. |
| Storage | Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers opened must be carefully resealed and kept upright to prevent leakage. |

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure controls

| | |
|----------------------|---|
| Engineering Measures | Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product |
|----------------------|---|

Personal protective Equipment

| | |
|------------------------|--|
| Respiratory protection | Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU) |
| Body protection | Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at specific workplace. |
| Eye / face protection | Tightly fitted safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under government standards |
| Skin protection | Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Form | Liquid |
| Color | Light Yellow |
| pH | No data available |
| Melting point | -30 °C (-22 °F) |
| Boiling point | >100 °C (212 °F) |
| Flash point | Not applicable |
| Ignition temperature | No data available |
| Lower explosion limit | 2 % (V) |
| Upper explosion limit | 13 % (V) |
| Vapor pressure | 227 hPa at 21.1 °C (69.98 °F) 547 hPa at 37.7 °C (99.86 °F) |
| Density | 1.2 g/ cm ³ at 25 °C (77 °F) |
| Water solubility | Soluble |
| Partition coefficient: n-octanol/ water | log Pow: -0.24 |
| Molecular weight | 58.08 |

10. STABILITY AND REACTIVITY

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|----------------------------------|--|
| Storage stability | No data available |
| Conditions to avoid | No data available |
| Materials to avoid | Bases, Amines, Alkali metals, Metals, permanganates, e.g. potassium permanganate, Fluorine, metal acetylides, hexalithium disilicide |
| Hazardous decomposition products | No data available |

11. TOXICOLOGICAL INFORMATION

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|--|--|
| Acute toxicity | LD50 Oral - rabbit - 900 mg/kg (Hydrochloric acid) |
| Skin irritation | No information available |
| Eye irritation | No information available |
| Sensitization | No information available |
| Specific target organ toxicity – single exposure (GHS) | Inhalation - May cause respiratory irritation |
| Specific target organ toxicity – repeated exposure (GHS) | No information available |
| Carcinogenicity | This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans |

Signs and Symptoms of Exposure

Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. (Hydrochloric acid)

12. ECOLOGICAL INFORMATION

| | |
|----------------------------------|--|
| Persistence and degradability | No available information |
| Ecotoxicity | No available information |
| Toxicity to fish | Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h |
| Bioaccumulative potential | No available information |
| Mobility | No available information |

13. DISPOSAL CONSIDERATIONS

| | |
|-----------|---|
| Product | Offer surplus and non-recyclable solutions to a licensed disposal company |
| Packaging | Dispose of as unused product |

14. TRANSPORT INFORMATION

IATA

UN-Number: 1789 Class: 8 Packing group: II
Proper shipping name: Hydrochloric acid

IMDG

UN-Number: 1789 Class: 8 Packing group: II
Proper shipping name: Hydrochloric acid
EMS-No. F-A, S-B

DOT (US)

UN-Number: 1789 Class: 8 Packing group: II
Proper shipping name: Hydrochloric acid
Marine pollution: No

15. REGULATORY INFORMATION

Hazard statements

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

Precautionary statements

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338: Rinse cautiously with water for several minutes IF IN EYES. Remove contact lenses.

P310: Immediately call a POISON CENTER or doctor/ physician.

GHS-Labeling

Pictogram



Signal word *Danger*

Labeling according to EC Directive

Symbol(s): Skin Corr.-Skin corrosion

STOT SE - Specific target organ toxicity - single exposure

C - Corrosive

R-phrase(s): 34-37

Causes burns. Irritating to respiratory system

S-phrase(s): 26-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. OTHER INFORMATION

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