

## **Safety Data Sheet**

# Hydrochloric Acid 2.85% (w/w)

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hydrochloric Acid 2.85% (w/w)

Synonyms/Generic Names: Muriatic acid

**Product Number: 2534** 

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

**For More Information:** 920-623-2140 (Monday-Friday 8:00-4:30)

www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

#### 2. HAZARDS IDENTIFICATION

Hazard Not Otherwise Classified (HNOC): None

Signal Words: Warning

Pictograms:



#### **GHS Classification:**

| Skin irritation | Category 2  |
|-----------------|-------------|
| Eye irritation  | Category 2A |

#### **GHS Label Elements, including precautionary statements:**

#### **Hazard Statements:**

| • | lazara otatomento. |                                |  |
|---|--------------------|--------------------------------|--|
|   | H315               | Causes skin irritation.        |  |
|   | H319               | Causes serious eye irritation. |  |

#### **Precautionary Statements:**

| P264           | Wash hands thoroughly after handling.                               |
|----------------|---|
| P280           | Wear protective gloves/eye protection/face protection.              |
| P302+P352      | IF ON SKIN: Wash with plenty of water.                              |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove |
|                | contact lenses, if present and easy to do. Continue rinsing.        |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.            |

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| P337+P313 | If eye irritation persists: Get medical advice/attention. |
|-----------|---|
| P362+P364 | Take off contaminated clothing and wash it before reuse.  |

#### **Potential Health Effects**

| Eyes       | Causes severe eye irritation.                                    |  |
|------------|--|--|
| Inhalation | May be harmful if inhaled. Causes respiratory tract irritation.  |  |
| Skin       | May be harmful if absorbed through skin. Causes skin irritation. |  |
| Ingestion  | May be harmful if swallowed.                                     |  |

#### **NFPA Ratings**

| Health          | 2             |
|-----------------|---------------|
| Flammability    | 0             |
| Reactivity      | 0             |
| Specific hazard | Not Available |

#### **HMIS Ratings**

| Health     | 2 |
|------------|---|
| Fire       | 0 |
| Reactivity | 0 |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component         | Weight % | CAS#      | EINECS# /<br>ELINCS# | Formula          | Molecular<br>Weight |
|-------------------|----------|-----------|----------------------|------------------|---------------------|
| Hydrochloric Acid | 2-3      | 7647-01-0 | 231-595-7            | HCI              | 36.46 g/mol         |
| Water             | Balance  | 7732-18-5 | 231-791-2            | H <sub>2</sub> O | 18.00 g/mol         |

### 4. FIRST-AID MEASURES

| Eyes       | Rinse with plenty of water for at least 15 minutes and seek medical attention.              |  |
|------------|---|--|
| Inhalation | Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not |  |
|            | breathing, give artificial respiration. Get medical attention.                              |  |
| Skin       | Flush with plenty of water for at least 15 minutes while removing contaminated clothing and |  |
|            | wash using soap. Get medical attention.   |  |
| Ingestion  | <b>Do Not Induce Vomiting!</b> Never give anything by mouth to an unconscious person. If    |  |
| _          | conscious, wash out mouth with water. Get medical attention.                                |  |

## **5. FIRE-FIGHTING MEASURES**

| Suitable (and unsuitable)     | Product is not flammable. Use appropriate media for adjacent fire.    |  |
|-------------------------------|---|--|
| extinguishing media           | Cool containers with water.   |  |
| Special protective equipment  | Wear self-contained, approved breathing apparatus and full protective |  |
| and precautions for           | clothing, including eye protection and boots.                         |  |
| firefighters                  |   |  |
| Specific hazards arising from | Emits toxic (hydrogen chloride gas) fumes under fire conditions. (See |  |
| the chemical                  | also Stability and Reactivity section).                               |  |

## **6. ACCIDENTAL RELEASE MEASURES**

| Personal precautions, protective equipment and emergency procedures | See section 8 for recommendations on the use of personal protective equipment. |
|---|--|
| Environmental precautions   | Prevent spillage from entering drains. Any release to the environment          |
|   | may be subject to federal/national or local reporting requirements.            |

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| Methods and materials for containment and cleaning up | Neutralize spill with sodium bicarbonate. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in |
|---|--|
|   | accordance with regulations.   |

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

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

Store in a cool, dry, well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Occupational exposure controls:

| Component         | Exposure Limits                 | Basis | Entity |
|-------------------|---------------------------------|-------|--------|
| Hydrogen Chloride | 2 ppm<br>2.98 mg/m <sup>3</sup> | CEIL  | ACGIH  |
|                   | 5 ppm<br>7 mg/m <sup>3</sup>    | CEIL  | OSHA   |
|                   | 5 ppm<br>7 mg/m <sup>3</sup>    | CEIL  | NIOSH  |
|                   | 50 ppm                          | IDLH  | OSHA   |

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels

CEIL: Ceiling

#### **Personal Protection**

| Eyes       | Wear chemical safety glasses or goggles with face shield if splashing is likely to occur.   |
|------------|---|
| Inhalation | Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.   |
|            | approved respirator.  |
| Skin       | Wear nitrile or rubber gloves, and apron or lab coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Other      | Not Available   |

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance (physical state, color, etc.) | Clear, blue liquid. |
|--|---------------------|
| Odor                                     | Not Available       |

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| Odor threshold                              | Not Available |
|---|---------------|
| pH  | Not Available |
| Melting point/freezing point                | Not Available |
| Initial boiling point and boiling range     | Not Available |
| Flash point                                 | Not Flammable |
| Evaporation rate                            | Not Available |
| Flammability (solid, gas)                   | Not Flammable |
| Upper/lower flammability or explosive limit | Not Explosive |
| Vapor pressure                              | Not Available |
| Vapor density                               | Not Available |
| Density                                     | 1.01-1.03     |
| Solubility (ies)                            | Not Available |
| Partition coefficient: n-octanol/water      | Not Available |
| Auto-ignition temperature                   | Not Available |
| Decomposition temperature                   | Not Available |

## 10. STABILITY AND REACTIVITY

| Chemical Stability                 | Stable   |
|------------------------------------|--|
| Possibility of Hazardous Reactions | Will not occur.  |
| Conditions to Avoid                | Not Available  |
| Incompatible Materials             | Metals, oxidizing agents, organic materials, alkalis, water. |
| Hazardous Decomposition Products   | Hydrogen chloride gas.                                       |

#### 11. TOXICOLOGICAL INFORMATION

| Α | Acute Toxicity |               |  |
|---|----------------|---------------|--|
| Ī | Skin           | Not Available |  |
| Ī | Eyes           | Not Available |  |
| Ī | Respiratory    | Not Available |  |
|   | Ingestion      | Not Available |  |

Carcinogenicity

| IARC  | No components of this product present at levels greater than or equal to 0.1% is  |
|-------|---|
|       | identified as probable, possible or confirmed human carcinogen by IARC.   |
| ACGIH | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |
| NTP   | No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.      |
| OSHA  | No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  |

Signs & Symptoms of Exposure

| Skin        | Irritation and burns.  |
|-------------|--|
| Eyes        | Eye irritation, conjunctivitis, burns.   |
| Respiratory | Irritation of upper respiratory tract and mucous membranes, coughing, choking.                                 |
| Ingestion   | Irritation, burning, ulceration, fever, vomiting, nausea, diarrhea, thirst, difficulty swallowing, salivation. |

| Chronic Toxicity | Not Available |
|------------------|---------------|
| Teratogenicity   | Not Available |
| Mutagenicity     | Not Available |
| Embryotoxicity   | Not Available |
| Target Organ(s)  | Not Available |

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| Reproductive Toxicity          | Not Available |
|--------------------------------|---------------|
| Respiratory/Skin Sensitization | Not Available |

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

| Aquatic Vertebrate   | Not Available |
|----------------------|---------------|
| Aquatic Invertebrate | Not Available |
| Terrestrial          | Not Available |

| Persistence and Degradability | Not Available |
|-------------------------------|---------------|
| Bioaccumulative Potential     | Not Available |
| Mobility in Soil              | Not Available |
| PBT and vPvB Assessment       | Not Available |
| Other Adverse Effects         | Not Available |

#### 13. DISPOSAL CONSIDERATIONS

| Waste Product or<br>Residues | rs should review their operations in terms of the applicable federal/national or I regulations and consult with appropriate regulatory agencies if necessary ore disposing of waste product or residue. |  |
|------------------------------|---|--|
| Product                      | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary                                     |  |
| Containers                   |   |  |
|                              | before disposing of waste product container.  |  |

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

#### 14. TRANSPORTATION INFORMATION

| US DOT           | UN1789, Hydrochloric acid, 8, pg III |
|------------------|--------------------------------------|
| TDG              | UN1789, HYDROCHLORIC ACID, 8, PG III |
| IMDG             | UN1789, HYDROCHLORIC ACID, 8, PG III |
| Marine Pollutant | No                                   |
| IATA/ICAO        | UN1789, Hydrochloric acid, 8, pg III |

#### 15. REGULATORY INFORMATION

| TSCA Inventory Status   | All ingredients are listed on the TSCA Active inventory. |
|---|--|
| DSL / NDSL  | All ingredients are listed on the DSL inventory.         |
| California Proposition 65                                       | Not Listed   |
| Rhode Island: Hazardous Substance List                          | Listed: Hydrochloric Acid                                |
| Massachusetts: Toxic or Hazardous Substance List, Right to Know | Listed: Hydrochloric Acid                                |
| Pennsylvania: Hazardous Substance List                          | Listed: Hydrochloric Acid                                |
| New Jersey: Right to Know Hazardous Substance<br>List           | Listed: Hydrochloric Acid                                |
| SARA 302  | Not Listed   |
| SARA 304  | Not Listed   |
| SARA 311  | Acute Health Hazard                                      |

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| SARA 312     | Acute Health Hazard                            |
|--------------|--|
| SARA 313     | Not Listed                                     |
| WHMIS Canada | Class D1A: Poisonous and infectious material – |
|              | Immediate and serious effects – Very toxic.    |
|              | Class E: Corrosive material.                   |

#### 16. OTHER INFORMATION

| Revision   | Date       |
|------------|------------|
| Original   | 02/01/2018 |
| Revision 1 | 01/31/2022 |
|            |            |

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