



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision date 30-Oct-2025

Revision Number 1

## 1. Identification

### Product identifier

Product Name Hydrochloric Acid 0.3N

### Other means of identification

Product Code(s) 8753

UN number or ID number UN1789

Synonyms No information available

### Recommended use of the chemical and restrictions on use

Recommended use Industrial use  
Laboratory use  
Industrial Manufacturing (all)

Restrictions on use No information available

### Details of the supplier of the safety data sheet

#### Supplier Address

Columbus Chemical Industries, Inc.  
N4335 Temkin Rd.  
Columbus, WI 53925 USA  
Phone: (920) 623-2140  
Fax: (920) 623-2577  
www.columbuschemical.com

### Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC: 1-800-424-9300 for US / 703-527-3887 outside US

Emergency Telephone 911

## 2. Hazard(s) identification

### Classification

|                                   |             |
|-----------------------------------|-------------|
| Skin corrosion/irritation         | Category 2  |
| Serious eye damage/eye irritation | Category 2A |

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Warning

**Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

**Precautionary Statements - Prevention**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

P321 - Specific treatment (see First-Aid Measures on SDS)

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

**Other information**

No information available.

**3. Composition/information on ingredients****Mixture**

| Chemical name     | CAS No    | Weight-% | Formula | Molecular Weight |
|-------------------|-----------|----------|---------|------------------|
| Hydrochloric acid | 7647-01-0 | 1-2      | HCl     | 36.46 g/mol      |
| Water             | 7732-18-5 | Balance  | H2O     | 18.02 g/mol      |

**4. First-aid measures****Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance.

**Inhalation**

Remove to fresh air. Get medical attention immediately if symptoms occur.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin contact**

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Ingestion**

Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider**

Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

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

**Note to physicians** Treat symptomatically.

**5. Fire-fighting measures**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical** Hydrogen chloride.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**7. Handling and storage****Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure Limits

| Chemical name     | ACGIH TLV      | OSHA PEL                                                                                                             | NIOSH                                                          |
|-------------------|----------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Hydrochloric acid | Ceiling: 2 ppm | (vacated) Ceiling: 5 ppm<br>(vacated) Ceiling: 7 mg/m <sup>3</sup><br>Ceiling: 5 ppm<br>Ceiling: 7 mg/m <sup>3</sup> | IDLH: 50 ppm<br>Ceiling: 5 ppm<br>Ceiling: 7 mg/m <sup>3</sup> |

### Appropriate engineering controls

**Engineering controls**                      Showers  
                                                          Eyewash stations  
                                                          Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/face protection**                      If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection**                              Wear suitable gloves. Impervious gloves.

**Skin and body protection**                      Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection**                      No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations**                      Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

**Physical state**                              Liquid  
**Appearance**                                Clear  
**Color**                                          Colorless  
**Odor**                                          No information available  
**Odor threshold**                              No information available

| <u>Property</u>                                | <u>Values</u>      | <u>Remarks • Method</u> |
|------------------------------------------------|--------------------|-------------------------|
| <b>pH</b>                                      | No data available  | None known              |
| <b>pH (as aqueous solution)</b>                | No data available  | None known              |
| <b>Melting point / freezing point</b>          | No data available  | None known              |
| <b>Initial boiling point and boiling range</b> | No data available  | None known              |
| <b>Flash point</b>                             | No data available  | None known              |
| <b>Evaporation rate</b>                        | No data available  | None known              |
| <b>Flammability</b>                            | No data available  | None known              |
| <b>Flammability Limit in Air</b>               |                    | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available  |                         |
| <b>Lower flammability or explosive limits</b>  | No data available  |                         |
| <b>Vapor pressure</b>                          | No data available  | None known              |
| <b>Relative vapor density</b>                  | No data available  | None known              |
| <b>Relative density</b>                        | 1.01 - 1.03        | None known              |
| <b>Water solubility</b>                        | Soluble in water   | None known              |
| <b>Solubility(ies)</b>                         | Soluble in alcohol | None known              |

|                                  |                   |            |
|----------------------------------|-------------------|------------|
| <b>Partition coefficient</b>     | No data available | None known |
| <b>Autoignition temperature</b>  | No data available | None known |
| <b>Decomposition temperature</b> |                   | None known |
| <b>Kinematic viscosity</b>       | No data available | None known |
| <b>Dynamic viscosity</b>         | No data available | None known |

**Other information**

|                             |                          |
|-----------------------------|--------------------------|
| <b>Explosive properties</b> | No information available |
| <b>Oxidizing properties</b> | No information available |
| <b>Softening point</b>      | No information available |
| <b>Molecular weight</b>     | No information available |
| <b>VOC content</b>          | No information available |
| <b>Liquid Density</b>       | No information available |
| <b>Bulk density</b>         | No information available |

**10. Stability and reactivity**

|                                           |                                                                     |
|-------------------------------------------|---------------------------------------------------------------------|
| <b>Reactivity</b>                         | No information available.                                           |
| <b>Chemical stability</b>                 | Stable under normal conditions.                                     |
| <b>Possibility of hazardous reactions</b> | None under normal processing.                                       |
| <b>Conditions to avoid</b>                | Exposure to air or moisture over prolonged periods. Excessive heat. |
| <b>Incompatible materials</b>             | Oxidizing agent. Strong acids. Strong bases.                        |
| <b>Hazardous decomposition products</b>   | Hydrogen chloride.                                                  |

**11. Toxicological information****Information on likely routes of exposure****Product Information**

|                     |                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.                                                  |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).                                              |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.             |

**Symptoms related to the physical, chemical and toxicological characteristics**

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| <b>Symptoms</b> | Redness. May cause redness and tearing of the eyes. |
|-----------------|-----------------------------------------------------|

**Acute toxicity****Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

|                        |                  |
|------------------------|------------------|
| <b>ATEmix (oral)</b>   | 99,999.00 mg/kg  |
| <b>ATEmix (dermal)</b> | 254,314.70 mg/kg |

|                                      |                 |
|--------------------------------------|-----------------|
| <b>ATEmix (inhalation-gas)</b>       | 99,999.0000 ppm |
| <b>ATEmix (inhalation-vapor)</b>     | 99,999.00 mg/l  |
| <b>ATEmix (inhalation-dust/mist)</b> | 99,999.000 mg/l |

**Component Information**

| Chemical name     | Oral LD50               | Dermal LD50             | Inhalation LC50         |
|-------------------|-------------------------|-------------------------|-------------------------|
| Water             | >90 ml/kg (Rat)         | -                       | -                       |
| Hydrochloric acid | 238 - 277 mg/kg ( Rat ) | > 5010 mg/kg ( Rabbit ) | = 1.68 mg/L ( Rat ) 1 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                          |                                                                                                            |
|------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Causes skin irritation. May cause skin irritation. |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Causes serious eye irritation.                     |
| <b>Respiratory or skin sensitization</b> | No information available.                                                                                  |
| <b>Germ cell mutagenicity</b>            | No information available.                                                                                  |
| <b>Carcinogenicity</b>                   | No information available.                                                                                  |

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name     | ACGIH | IARC    | NTP | OSHA |
|-------------------|-------|---------|-----|------|
| Hydrochloric acid | -     | Group 3 | -   | -    |

**Legend**

**IARC (International Agency for Research on Cancer)**

Group 3 - Not Classifiable as to Carcinogenicity in Humans

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>Reproductive toxicity</b>    | No information available.       |
| <b>STOT - single exposure</b>   | No information available.       |
| <b>STOT - repeated exposure</b> | No information available.       |
| <b>Target organ effects</b>     | Respiratory system, Eyes, Skin. |
| <b>Aspiration hazard</b>        | No information available.       |
| <b>Other adverse effects</b>    | No information available.       |
| <b>Interactive effects</b>      | No information available.       |

**12. Ecological information****Ecotoxicity**

| Chemical name     | Algae/aquatic plants | Fish                                   | Toxicity to microorganisms | Crustacea |
|-------------------|----------------------|----------------------------------------|----------------------------|-----------|
| Hydrochloric acid | -                    | LC50: 282 mg/L (96h, Gambusia affinis) | -                          | -         |

|                                      |                                    |
|--------------------------------------|------------------------------------|
| <b>Persistence and degradability</b> | No information available.          |
| <b>Bioaccumulation</b>               | There is no data for this product. |
| <b>Other adverse effects</b>         | No information available.          |

### 13. Disposal considerations

#### Disposal methods

|                                            |                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers. Dispose of contents/containers in accordance with local regulations.             |

### 14. Transport information

|                            |                   |
|----------------------------|-------------------|
| <b><u>DOT</u></b>          | Regulated         |
| UN number or ID number     | UN1789            |
| Proper shipping name       | Hydrochloric acid |
| Transport hazard class(es) | 8                 |
| Packing group              | III               |
| DOT Marine Pollutant       | No                |

|                            |                   |
|----------------------------|-------------------|
| <b><u>TDG</u></b>          | Regulated         |
| UN number or ID number     | UN1789            |
| UN proper shipping name    | Hydrochloric acid |
| Transport hazard class(es) | 8                 |
| Packing group              | III               |

|                            |                   |
|----------------------------|-------------------|
| <b><u>ICAO (air)</u></b>   | Regulated         |
| UN number or ID number     | UN1789            |
| UN proper shipping name    | Hydrochloric acid |
| Transport hazard class(es) | 8                 |
| Packing group              | III               |

|                            |                   |
|----------------------------|-------------------|
| <b><u>IATA</u></b>         | Regulated         |
| UN number or ID number     | UN1789            |
| UN proper shipping name    | Hydrochloric acid |
| Transport hazard class(es) | 8                 |
| Packing group              | III               |

|                            |                   |
|----------------------------|-------------------|
| <b><u>IMDG</u></b>         | Regulated         |
| UN number or ID number     | UN1789            |
| UN proper shipping name    | Hydrochloric acid |
| Transport hazard class(es) | 8                 |
| Packing group              | III               |

### 15. Regulatory information

#### International Inventories

|                      |                                                   |
|----------------------|---------------------------------------------------|
| <b>TSCA</b>          | Complies.                                         |
| <b>DSL/NDSL</b>      | Complies.                                         |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status. |
| <b>ENCS</b>          | Contact supplier for inventory compliance status. |
| <b>IECSC</b>         | Contact supplier for inventory compliance status. |
| <b>KECL</b>          | Contact supplier for inventory compliance status. |
| <b>PICCS</b>         | Contact supplier for inventory compliance status. |
| <b>AIIC</b>          | Contact supplier for inventory compliance status. |
| <b>NZIoC</b>         | Contact supplier for inventory compliance status. |

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name                  | SARA 313 - Threshold Values % |
|--------------------------------|-------------------------------|
| Hydrochloric acid<br>7647-01-0 | 1.0                           |

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical name     | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Hydrochloric acid | 5000 lb                     | -                      | -                         | X                          |

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

| Chemical name     | Hazardous Substances RQs | Extremely Hazardous Substances RQs | Reportable Quantity (RQ)                   |
|-------------------|--------------------------|------------------------------------|--------------------------------------------|
| Hydrochloric acid | 5000 lb                  | 5000 lb                            | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

| Chemical name     | New Jersey | Massachusetts | Pennsylvania |
|-------------------|------------|---------------|--------------|
| Hydrochloric acid | X          | X             | X            |

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

### **16. Other information**

|             |                       |   |                     |   |                         |   |                            |   |
|-------------|-----------------------|---|---------------------|---|-------------------------|---|----------------------------|---|
| <b>NFPA</b> | <b>Health hazards</b> | 2 | <b>Flammability</b> | 0 | <b>Instability</b>      | 0 | <b>Special hazards</b>     | - |
| <b>HMIS</b> | <b>Health hazards</b> | 2 | <b>Flammability</b> | 0 | <b>Physical hazards</b> | 0 | <b>Personal protection</b> | X |

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

**Revision date** 30-Oct-2025

**Revision Note** No information available.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**