

# Safety Data Sheet (SDS)

acc. to OSHA HCS 29 CFR 1910.1200(g) revised in 2012

Issued date: 03/05/2024

Revision date: 03/05/2024

Trade name: Hydrochloric Acid 0.01N

## 1 Identification

### Product identifier

**Trade name:** Hydrochloric Acid 0.01N

### Relevant identified uses of the substance or mixture and uses advised against

**Recommended uses:** Industrial, manufacturing or laboratory use.

**Uses advised against:** Food, drugs, pesticide, cosmetics, medical devices, human or animal application.

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

**Manufacturer/Supplier:** Alchemie Labs Inc.

**Address:** 53 Capital Dr  
Wallingford, CT 06492

**Telephone:** +1 (203) 208 8869

### Emergency telephone number

+1 (203) 208 8869

## 2 Hazard(s) identification

### Classification of the substance or mixture

#### Classification in accordance with 29 CFR 1910.1200 (OSHA HCS):

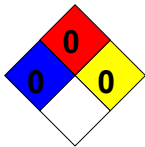
This substance does not meet the criteria for classification.

#### GHS Label elements, including precautionary statements

Not required.

**Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.

#### NFPA ratings (scale 0 - 4)



Health = 0

Flammability = 0

Instability = 0

#### HMIS-ratings (scale 0 - 4)

HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

Health = 0

Flammability = 0

Physical hazard = 0

#### Other hazards

The mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3 Composition/information on ingredients

**Chemical characterization:** Mixtures.

#### Components:

Chemical name	Common name and synonyms	CAS number	Weight %
Water	-	7732-18-5	Balance
Hydrochloric acid	Hydrogen chloride	7647-01-0	<0.1

#### Additional information:

Any concentration shown as a range is due to batch-to-batch variability in the production of a mixture.

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### 4 First-aid measures

#### Description of first aid measures

##### Inhalation:

Move casualty to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

##### Eye contact:

Rinse with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

##### Ingestion:

Rinse mouth with water. Give a cupful of water.

##### Skin contact:

Wash off with soap and water.

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

The most important known symptoms and effects are described in Section 2 and/or in Section 11.

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

Treat symptomatically.

### 5 Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media:** CO<sub>2</sub>, extinguishing powder, alcohol-resistant foam or water spray.

**Unsuitable extinguishing media:** No information available.

#### Special hazards arising from the substance or mixture

Non-combustible.

#### Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

### 6 Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

#### Environmental precautions

Do not allow to enter sewers/ surface or ground water.

#### Methods and material for containment and cleaning up

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Ensure adequate ventilation.

Clean surfaces thoroughly with water to remove residual contamination.

Dispose of all waste and cleanup materials in accordance with regulations.

#### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

#### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Wash hands after use.

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

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

**Specific end use(s)**

No additional information available.

## 8 Exposure controls/personal protection

**Control parameters**

**Occupational exposure limits:**

Component	CAS number	OSHA PEL	NIOSH REL	ACGIH TLV
Hydrochloric acid	7647-01-0	5 ppm Ceiling 7 mg/m <sup>3</sup> Ceiling	5 ppm Ceiling 7 mg/m <sup>3</sup> Ceiling	2 ppm Ceiling
Water	7732-18-5	Not listed	Not listed	Not listed

**Exposure controls**

**Appropriate engineering controls:**

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Personal protective equipment:**

**Eye/face protection:**



Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin protection:**



Wear protective gloves (nitrile rubber), protective clothing and/or acid resistant apron.

**Respiratory protection:**



Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

## 9 Physical and chemical properties

**Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	Colorless
Odor:	Pungent
pH-value at 20°C (68°F):	<3
Melting point/freezing point:	Not determined
Boiling point/boiling range:	Not determined
Flash point:	Not applicable
Evaporation rate:	Not determined
Flammability (solid, gas):	Non-combustible
Lower explosion limit:	Not determined

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Upper explosion limit:	Not determined
Vapor pressure at 20°C (68°F):	Not determined
Vapor density:	Not determined
Density at 20°C (68°F):	1.00 g/cm <sup>3</sup> (8.3454 lbs/gal)
Relative density:	Not determined
Solubility:	Soluble in water
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Product is not self-igniting
Decomposition temperature:	Not determined
Kinematic viscosity:	Not determined
Dynamic viscosity:	Not determined

**Other information**

No additional information available.

## 10 Stability and reactivity

**Reactivity**

Not reactive under normal ambient conditions.

**Chemical stability**

Product is stable under normal conditions.

**Possibility of hazardous reactions**

No information available.

**Conditions to avoid**

Excess heat.

**Incompatible materials**

Strong bases.

**Hazardous decomposition products**

No additional information available.

## 11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:**

**Product information:**

No information available.

**Components information:**

Component	CAS number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrochloric acid	7647-01-0	700 mg/kg (Rat) 900 mg/kg (Rabbit)	> 5010 mg/kg (Rabbit)	3124 ppm (Rat) 1 h
Water	7732-18-5	> 90000 mg/kg (Rat)	-	-

**Skin corrosion/irritation:** Not classified.

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

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

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:**

Component	CAS number	IARC	NTP	OSHA	ACGIH
Hydrochloric acid	7647-01-0	Not listed	Not listed	Not listed	Not listed
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed

**Reproductive toxicity:** Not classified.

**STOT—single exposure:** Not classified.

**STOT—repeated exposure:** Not classified.

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**Aspiration hazard:** Not classified.

## 12 Ecological information

### Toxicity

Component	CAS number	Test type	Value	Species	Exposure time
Hydrochloric acid	7647-01-0	LC50	282 mg/l	Gambusia affinis	96 h

### Persistence and degradability

No information available.

### Bioaccumulative potential

No information available.

### Mobility in soil

No information available.

### Results of PBT and vPvB assessment

The mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### Other adverse effects

No additional information available.

## 13 Disposal considerations

### Waste treatment methods

Dispose of in accordance with all applicable federal, state, and/or local laws and regulations. Do not allow product to reach sewage system.

### Contaminated packaging:

Dispose of in accordance with all applicable federal, state, and local regulations. Dispose of as unused product.

## 14 Transport information

**In Accordance with DOT:** Not regulated  
**UN number or ID number** Not applicable.  
**UN proper shipping name** Not applicable.  
**Transport hazard class(es)** Not applicable.  
**Packing group** Not applicable.

**In Accordance with IMDG:** Not regulated  
**UN number or ID number** Not applicable.  
**UN proper shipping name** Not applicable.  
**Transport hazard class(es)** Not applicable.  
**Packing group** Not applicable.

**In Accordance with IATA:** Not regulated  
**UN number or ID number** Not applicable.  
**UN proper shipping name** Not applicable.  
**Transport hazard class(es)** Not applicable.  
**Packing group** Not applicable.

### Environmental hazards

Not classified as a Marine Pollutant.

### Special precautions for user

See Section 7 and 10.

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**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)**

Not applicable.

### 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture****U.S. Federal Regulations****TSCA Status:**

All components of this product are listed as Active on the TSCA Inventory.

**OSHA Hazard Communication Standard:**

This product contains "Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200): Hydrogen chloride (CAS No. 7647-01-0).

**CERCLA Hazardous Substance List (40 CFR 302.4):**

Hydrochloric acid (CAS No. 7647-01-0): 5000 lbs RQ.

**SARA Title III Section 302 (40 CFR 355):**

Hydrogen chloride (CAS No. 7647-01-0): 500 lbs TPQ (gas only).

**SARA Title III Section 304 (40 CFR 355):**

Hydrogen chloride (CAS No. 7647-01-0): 5000 lbs EPCRA RQ (gas only).

**SARA Title III Section 313 (40 CFR 372):**

Hydrochloric acid (CAS No. 7647-01-0): 1.0 % de minimis concentration.

**SARA Title III Section 311/312 Hazard Categories (40 CFR 370):**

Hydrochloric acid (CAS No. 7647-01-0): Corrosive to metal, Serious eye damage, Skin corrosion, Specific target organ toxicity (single exposure).

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):**

Hydrochloric acid (CAS No. 7647-01-0): 5000 lbs RQ.

**Clean Air Act Section 112 List of Hazardous Air pollutants (40 CFR 61):**

Hydrochloric acid (CAS No. 7647-01-0).

**U.S. State Regulations****California Proposition 65:**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**Massachusetts Right to Know Substance List:**

Hydrogen chloride (CAS No. 7647-01-0): Extraordinarily hazardous.

**Pennsylvania Right to Know Hazardous Substances:**

Hydrochloric acid (CAS No. 7647-01-0): Environmental hazard.

**New Jersey Worker and Community Right to Know Components:**

Hydrogen chloride (CAS No. 7647-01-0): SN 1012.

**Chemical safety assessment**

No information available.

### 16 Other information

**Prepared by:****Issued date:** 03/05/2024**Revision date:** 03/05/2024**Revision number:** 1.0**Abbreviations and acronyms:**

ACGIH American Conference of Governmental Industrial Hygienists

AIHA American Industrial Hygiene Association

ANSI American National Standards Institute

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CAS	Chemical Abstract Service
CERCLA	Comprehensive Emergency Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
EmS	Emergency Schedule
EC50	Effective Concentration, 50%
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-To-Know Act
GHS	Globally Harmonized System
HMIS	Hazardous Materials Information System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
MSHA	Mine Safety and Health Administration
NFPA	National Fire Protection Agency
NIOSH	National Institute for Occupational Safety & Health
OSHA	Occupational Safety & Health Administration
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
RQ	Reportable Quantity
SARA	Superfund Amendments and Reauthorization Act of 1986 Title III
SCBA	Self-Contained Breathing Apparatus
STEL	Short-Term Exposure Limit
STOT	Specific Target Organ Toxicity
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
vPvB	Very Persistent and Very Bioaccumulative

### Disclaimer

The information provided in this Safety Data Sheet 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.

Alchemie Labs Inc. specifies that this product is intended for use in industrial, manufacturing, or laboratory settings only. It is explicitly advised against using this product in food, drugs, or as a pesticide. Furthermore, it cannot be utilized for human or animal applications (excluding specific laboratory-bred species), in cosmetics, medical devices, or in any products that may contravene the Federal Food, Drug, and Cosmetic Act, the Federal Insecticide, Fungicide, and Rodenticide Act, or the Toxic Substances Control Act. Since conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this product. Buyers and users are responsible for ensuring regulatory compliance, safety, efficacy, and appropriate hazard communication for all applications.