

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers:

Product Name Hydrochloric acid, 1.0N

Cat Number H764701-10N

1.2 Identified uses: Laboratory chemicals, Synthesis of substances

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

Company: UFC Biotechnology Inc.  
435 Creekside Drive, Suite 5  
Amherst NY 14228  
UNITED STATES

Telephone: +1-716-777-3776

Fax: +1-716-240-2713

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

Emergency Phone # : +1-800-535-5053 INFOTRAC (USA) – 24h, 7 Days/week  
+1-352-323-3500 INFOTRAC (International) – 24h, 7 Days/week

## SECTION 2: Hazards Identification

### 2.1 Classification of the substance or mixture

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Health Hazards

Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target organs – respiratory system	

#### Environmental Hazards

Corrosive to metals	Category 1
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GHS label elements, including precautionary statements

### 2.2

#### Hazard Symbol:



Signal Word: **Danger**

Hazard Statement(s): Maybe corrosive to metals  
Causes severe skin burn and eye damage  
May cause respiratory irritation

#### Precautionary Statements:

**Prevention:** Do not breathe dust/fume/gas/mist/vapors/spray|  
Wash face, hands, and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Use only outdoors or in a well-ventilated area  
Keep only in the original container

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a comfortable position for breathing.

**Skin:** IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.

- Eyes:** 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.
- Spills:** Absorb spillage to prevent material damage.
- Storage:** Store locked up. Store in a corrosive-resistant polypropylene container with a resistant liner.
- Disposal:** Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Other hazards which do not result in classification

None

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## Section 3: Composition/information on ingredients

### 3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration (% weight)
Water	Aqua	7732-18-5		≥90 – 99≤%
Hydrochloric acid		7647-01-0		1-≤10%

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## Section 4: First-aid measures

### 4.1 Description of necessary first-aid measures

- If inhaled* Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.
- In case of skin contact* After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.
- In case of eye contact* In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eyes. Remove contact lenses, if present, and easy to do. Continue rinsing.
- If swallowed* If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

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## Section 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media* The product itself does not burn. Coordinate fire-fighting measures to the fire surrounding.

### 5.2 Specific hazards arising from the chemical

In a fire scenario, pyrolysis and toxic products may be liberated.

### 5.3 Special protective actions for fire-fighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

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## Section 6: Accidental release measures

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

In case of major fire and large quantities: Remove persons to safety.

### 6.2 Environmental precautions

Avoid the release of materials into the environment and stop running off to waterways/sewers.

### 6.3 Methods and materials for containment and cleaning up

Take up the liquid spill with absorbent material. Then dispose of materials at an authorized site.

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## Section 7: Handling and storage

### 7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible: Inhalation skin contact  
Eye contact.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep the container tightly closed in a dry and well-ventilated place. Store at room temperature.

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## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

*Occupational Exposure limit values*

Chemical Name	OSHA – PEL (mg/m <sup>3</sup> )	NIOSH – REL (mg/m <sup>3</sup> )	ACGIH – TLV (mg/m <sup>3</sup> )
Hydrochloric acid	7	7	2

### 8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of workday.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

*Eye/face protection* Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

*Skin protection* Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the 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.

If used in solution, or mixed with other substances, and under conditions that differ from EN 374, contact the supplier of the CE-approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering approval for any specific use scenario.

*Body protection* Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

*Respiratory protection* Respiratory protection is not required. in case of formation of vapors/aerosols: Short term: filter apparatus, combination filter A-P2.

*Control of environmental exposure* No special environmental precautions are required.

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## Section 9: Physical and chemical properties

Appearance	Clear liquid
Odor	No data available
Melting point/ freezing point	0°C (32°F)
Boiling point or initial boiling point and boiling range	>100°C (212°F)
Flammability	Not applicable
Lower and upper explosion limit/flammability limit	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	<1 (20 °C)
Kinematic viscosity	No data available
Solubility in water	Soluble in water
Partition coefficient n-octanol/water (log value)	No data available
Vapor pressure	No data available
Density and/or relative density	1.02 to 1.05 (20 °C)
Particle characteristics	No data available

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## Section 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

The generally known reaction partners of water

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

No data available

## 10.6 Hazardous decomposition products

No data available

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## Section 11: Toxicological information

### Acute toxicity

Oral: No data available  
Inhalation: No data available  
Dermal: No data available

### Skin corrosion/irritation

(Rabbit): This material may cause moderate to severe irritation and potentially burn the skin

### Serious eye damage/irritation

Serious irritant effect

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component 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 component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### Reproductive toxicity

Reproductive toxicity  
No data available

### STOT-single exposure

No data available

### STOT-repeated exposure

No data available

### Aspiration hazard

No data available

### Additional information

No data available

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## Section 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessments

No data available

### 12.6 Other adverse effects

Discharge into the environment must be avoided

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## Section 13: Disposal considerations

### 13.1 Disposal methods

*Product* Offer surplus and non-recyclable solutions to a licensed disposal company.  
*Contaminated packaging* Dispose of as unused product.

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## Section 14: Transport information

### DOT (US)

UN Number: UN1789

Shipping name: Hydrochloric acid

Hazard Class: 8  
Packing group: III

**IMDG**

UN Number: UN1789  
Shipping name: Hydrochloric acid  
Hazard Class: 8  
Packing group: III

**IATA**

UN Number: UN11789  
Shipping name: Hydrochloric acid  
Hazard Class: 8  
Packing group: III

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**Section 15: Regulatory information**

Adhere to all Federal, State and Local Regulations

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**Section 16: Other information**

References: Not available.

Other Special Considerations: Not available.

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