



Safety Data Sheet  
According to the (US) Hazard Communication Standard (29 CFR 1910.1200)

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** Hydrochloric Acid, 0.01 N  
**NCL Catalog Number** H-33  
**Product Description** Laboratory chemical  
**Supplier**  
NCL of Wisconsin, Inc. **Telephone:** 1-800-648-7836 **Fax:** 715-449-2454  
P.O. Box 8 **Emergency Contact:** 1-800-424-9300 (Chemtrec)  
Biramwood, WI 54414 **Email:** [nclabs@nclabs.com](mailto:nclabs@nclabs.com)

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS Classification**

Skin Irritation Category 2  
Eye Irritation Category 2A



**Signal Word** Warning

**Hazard Statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary Statements**

P264 Wash exposed skin thoroughly after handling.  
P280 Wear protective gloves/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
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.

**Other Hazards Not Contributing to the Classification** None under normal conditions.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Identity** Not applicable  
**Common Name** Not applicable

**Mixture**

Name	CAS #	Approximate %
Water	7732-18-5	>99.8
Hydrochloric Acid	7647-01-0	<1.2

**SECTION 4: FIRST AID MEASURES**

**Description of First Aid Measures**

**General First Aid Measures** Never give anything by mouth to an unconscious person. Seek medical advice if you feel unwell.

<b>If Inhaled</b>	Remove person to fresh air and keep comfortable for breathing. Allow victim to rest. Get medical attention if you feel unwell.
<b>In Case of Skin Contact</b>	Remove contaminated clothing and wash exposed skin with mild soap and water. Rinse with warm water. Get medical attention if irritation develops.
<b>In Case of Eye Contact</b>	Immediately flush eyes with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops.
<b>If Swallowed</b>	Rinse mouth. Do NOT induce vomiting. Get medical attention if you feel unwell.

#### **Most Important Symptoms/Effects Acute and Delayed**

<b>After Inhalation</b>	Possible inflammation of the respiratory tract.
<b>After Skin Contact</b>	Causes skin irritation.
<b>After Eye Contact</b>	Causes serious eye irritation.
<b>After Ingestion</b>	Nausea. Vomiting.
<b>Chronic Symptoms</b>	Discoloration of teeth.

#### **Indication of Immediate Medical Attention and Special Treatment Needed**

Seek medical advice if you feel unwell.

### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

<b>Suitable Extinguishing Media</b>	Foam. Dry powder. Sand. Carbon dioxide. Water spray.
<b>Unsuitable Extinguishing Media</b>	Do not use high pressure water stream.
<b>Special Hazards Arising from the Chemical</b>	No additional information available.
<b>Special Protective Actions for Fire-Fighter</b>	Wear self-contained breathing apparatus and protective clothing. Keep exposed containers cool with water spray.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **Personal Precautions, Protective Equipment and Emergency Procedures**

<b>Personal Precautions</b>	Use personal protective equipment (see section 8). Safety glasses, gloves. Evacuate area of non-essential personnel. Eliminate ignition sources.
<b>Environmental Precautions</b>	Prevent entry to surface and ground waters.
<b>Methods and Materials for Containment and Cleaning Up</b>	Clean up spill with inert absorbent material. Collect spillage. Store away from other materials. Ensure compliance with local, state and federal regulations.

### **SECTION 7: HANDLING AND STORAGE**

<b>Precautions for Safe Handling</b>	Avoid contact with eyes and skin. Avoid breathing vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
<b>Conditions for Safe Storage Including any Incompatibilities</b>	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Store away from sunlight, which can contribute to instability. Store away from strong bases, metals and cyanides.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b><u>Control Parameters</u></b>	Not applicable
<b><u>Appropriate Engineering Controls</u></b>	Material should be handled or transferred in a fume hood or with equivalent ventilation. Maintain eye-wash fountain and quick-drench facilities in work area.
<b><u>Individual Protection Measures</u></b>	Avoid all unnecessary exposure.

<b>Eye/Face Protection</b>	Use chemical safety goggles and /or a full face shield where splashing is possible. Contact lenses should not be worn when working with this material.
<b>Skin Protection</b>	Rubber or neoprene gloves and additional protection including impervious boots, apron, or coveralls, as needed in areas of unusual exposure to prevent skin contact.
<b>Respiratory Protection</b>	Wear appropriate mask.
<b>Other Information</b>	Do not eat, drink, or smoke when using this product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	Slightly acidic
<b>Odor Threshold</b>	Not determined
<b>pH</b>	Not determined
<b>Melting Point/Freezing Point</b>	Not determined
<b>Initial Boiling Point and Boiling Range</b>	Not determined
<b>Flash Point</b>	Not determined
<b>Evaporation Rate</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not determined
<b>Upper/Lower Flammability/Explosive Limits</b>	Not determined
<b>Vapor Pressure</b>	Not determined
<b>Vapor Density</b>	Not determined
<b>Relative Density</b>	1.0
<b>Solubility</b>	Not determined
<b>Partition Coefficient: n-octanol/water</b>	Not determined
<b>Auto-Ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	Not determined

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Thermal decomposition generates toxic hydrogen chloride fumes.
<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Possibility of Hazardous Reactions</b>	Reacts violently with some bases and with the evolution of heat.
<b>Conditions to Avoid</b>	Extremely high or low temperatures. Heat and sunlight can contribute to instability.
<b>Incompatible Materials</b>	Metal oxides, hydroxides, amines, alkaline materials, cyanides, sulfides, sulfites, formaldehyde, metals, and strong bases.
<b>Hazardous Decomposition Products</b>	When heated to decomposition, can emit toxic gases, hydrogen chloride, carbon dioxide, and carbon monoxide. Thermal decomposition generates corrosive vapors.

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	Not classified
<b>Hydrochloric Acid, 37% w/w (7647-01-0)</b>	
<b>LD50 oral rat</b>	700 mg/kg
<b>LD50 dermal rat</b>	5010 mg/kg
<b>Water (7732-18-5)</b>	
<b>LD50 oral rat</b>	>90000 mg/kg
<b>Skin Corrosion/Irritation</b>	Causes skin irritation.
<b>Serious Eye Damage/Irritation</b>	Causes serious eye irritation.

<b>Respiratory or Skin Sensitization</b>	Not classified
<b>Germ Cell Mutagenicity</b>	Not classified
<b>Carcinogenicity</b>	Not classified
<b>Reproductive Toxicity</b>	Not classified
<b>Specific Target Organ Toxicity (Single Exposure)</b>	Not classified
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	Not classified
<b>Aspiration Hazard</b>	Not classified
<b>Potential Adverse Human Health Effects and Symptoms</b>	No data available
<b>Symptoms/Injuries After Inhalation</b>	Possible inflammation of the respiratory tract.
<b>Symptoms/Injuries After Skin Contact</b>	Causes skin irritation
<b>Symptoms/Injuries After Eye Contact</b>	Causes serious eye irritation
<b>Symptoms/Injuries After Ingestion</b>	Nausea. Vomiting.
<b>Chronic Symptoms</b>	Discoloration of teeth.
<b>Other Information</b>	Not available

**SECTION 12: ECOLOGICAL INFORMATION**

<b>Toxicity</b>	Not applicable
<b>Persistence and Degradability</b>	Not applicable
<b>Bioaccumulative Potential</b>	Not applicable
<b>Mobility in Soil</b>	Not applicable
<b>Other Adverse Effects</b>	Not applicable

**SECTION 13: DISPOSAL CONSIDERATIONS**

Methods of Disposal

<b>Disposal Recommendations</b>	Dispose of contents/containers in accordance with local, state and federal regulations.
<b>Other Information</b>	Avoid release to the surrounding environment.

**SECTION 14: TRANSPORT INFORMATION**

<b>UN Number</b>	Not applicable
<b>UN Shipping Name</b>	Not applicable
<b>Transport Hazard Class(es)</b>	Not determined
<b>Packing Group</b>	Not applicable
<b>Environmental Hazards</b>	Not applicable
<b>Transport in Bulk</b>	Not applicable
<b>Other Precautions</b>	Not applicable

**SECTION 15: REGULATORY INFORMATION**

<b>Hydrochloric Acid, 37% w/w (7647-01-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
RQ (Reportable quantity)	5000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
<b>Water (7732-18-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

**SECTION 16: OTHER INFORMATION**

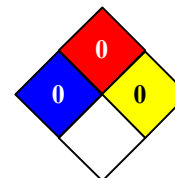
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**NFPA Hazards**

**Health Hazard** 0: Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

**Fire Hazard** 0: Materials that will not burn.

**Reactivity/Instability** 0: Normally stable, even under fire exposure conditions, and are not reactive with water.



**HMIS III Rating**

**Health** 0: No significant risk to health.

**Flammability** 0: Materials that will not burn.

**Physical Hazard** 0: Materials that are normally stable.

**Personal Protection** A

<b>H-33</b>	
Health	0
Flammability	0
Physical Hazard	0
Personal Protection	A

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**END OF SAFETY DATA SHEET**