

# Safety Data Sheet

Part Number 326230

## Section 1. Substance Identity and Company Contact Information

<b>Product Name</b>	Hydrochloric Acid (less than 10%)	<b>Product Part Number(s)</b>	324049 and 184713
<b>Trade Name</b>	Reagent-HCl, 2N	<b>Unit Size</b>	1 L
<b>Company</b>	OI Analytical, P.O. Box 9010, College Station, TX 77842-9010, Phone: (979) 690-1711, Fax: (979) 690-0440		

**Emergency No. 1-800-424-9300 (Chemtrec).** Use only in the event of chemical emergencies involving spills, leaks, fire, exposure, or accidents involving chemicals.

## Section 2. Hazards Identification

**Pictogram(s)**



<b>Signal Word</b>	Warning	
<b>Precautionary Statement(s)</b>	May cause irritation	
<b>Emergency Overview</b>	No data available	
<b>Target Organ(s)</b>	Respiratory system, eyes, and skin	
<b>Potential Health Effects</b>	Eye:	Flush with copious amounts for water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
	Skin:	Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
	Ingestion:	Wash out mouth with water provided person is conscious. Call a physician.
	Inhalation:	Remove to fresh air. If breathing becomes difficult, call a physician.
<b>Chronic Effects/ Carcinogenicity</b>	IARC:	Group 3
	NTP:	No data available
	OSHA:	No data available
<b>Teratology (Birth Defects) Information</b>	Chronic Exposure Species: Rat Dose: 450 mg/m3/IH Route of Application: Inhalation Exposure Time: (10 PRE) Result Specific Development Abnormalities Homeostasis Effects of Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus.)	
<b>Reproductive Information</b>	See Teratology.	
<b>NFPA Ratings</b>	Health:	2
	Flammability:	0
	Reactivity:	0
	Special Notice Key:	No data available

<b>HMIS Rating</b>	Health:	2
	Flammability:	0
	Reactivity:	0
	Protective Equipment:	No data available

### Section 3. Chemical Composition and Data on Components

Ingredient	CAS No.	Percent	Hazard Data	
			ACGIH TLV	OSHA PEL
Hydrochloric Acid	7647-01-0	< 20	5 ppm for HCl ceiling limit	5 ppm (7 mg/m <sup>3</sup> )
Water	7732-18-5	> 80	No data available	No data available

### Section 4. First Aid Measures

<b>General Advice</b>	No data available
<b>If Inhaled</b>	Remove to fresh air. If breathing becomes difficult, call a physician.
<b>In Case of Skin Contact</b>	Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
<b>In Case of Eye Contact</b>	Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
<b>If Swallowed</b>	Wash out mouth with water provided person is conscious. Call a physician.
<b>Indication of Any Immediate Medical Attention and Special Treatment Needed</b>	No special measures required.

### Section 5. Fire-fighting Measures

<b>General Information</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.
<b>Suitable Extinguishing Media</b>	Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
<b>Special Hazards Arising from the Substance or mixture</b>	No data available
<b>Advice for Firefighters</b>	No data available
<b>Flash Point</b>	No data available
<b>Autoignition Temperature</b>	No data available
<b>Further Information</b>	No data available

### Section 6. Accidental Release Measures

<b>Personal Precautions, Protective Equipment, and Emergency Procedures</b>	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
<b>Environmental Precautions</b>	No data available
<b>Methods and Materials for Containment and Cleaning</b>	Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.
<b>Reference to Other Sections</b>	For disposal, see Section 13.

## Section 7. Handling and Storage

<b>Precautions for Safe Handling</b>	Do not breathe vapor. Do not get in eyes, on skin, on clothing.
<b>Conditions for Safe Storage, Including any Incompatibilities</b>	Keep tightly closed. May develop pressure. Open carefully.
<b>Specific End Use(s)</b>	No data available

## Section 8. Exposure Controls and Personal Protection

<b>Components with Workplace Control Parameters</b>	No information available
<b>Appropriate Engineering Controls</b>	No data available
<b>Eye/Face Protection</b>	Chemical safety goggles
<b>Skin Protection</b>	Compatible chemical-resistant gloves
<b>Body Protection</b>	Wash thoroughly after handling. Discard contaminated shoes. Wash contaminated clothing before reuse.
<b>Respiratory Protection</b>	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows airpurifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as backup to engineering controls. If the respirator is the sole means of protection, use full-face supplied air respirator.
<b>Control of Environmental Exposure</b>	No data available

## Section 9. Physical and Chemical Properties

<b>Appearance</b>	Form: Clear Liquid; Color: colorless
<b>Odor</b>	No data available
<b>Odor Threshold</b>	No data available
<b>pH</b>	acidic
<b>Melting Point/Freezing Point</b>	No data available
<b>Initial Boiling Point and Boiling Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/Lower Flammability or Explosive Limits</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Relative Density</b>	No data available
<b>Water Solubility</b>	Complete 100%
<b>Partition Coefficient : n-octanol/water</b>	No data available
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive Properties</b>	No data available
<b>Oxidizing Properties</b>	No data available
<b>Other Safety Information</b>	No data available

## Section 10. Stability and Reactivity

<b>Reactivity</b>	No data available
<b>Chemical Stability</b>	The product is stable.
<b>Possibility of Hazardous Reactions</b>	Hydrogen chloride gas
<b>Conditions to Avoid</b>	No data available
<b>Incompatible Materials</b>	Bases, amines, alkali metals, and metals

## Section 11. Toxicological Information

<b>Routes of Exposure</b>	<i>On the skin:</i>	Cause skin irritation.
	<i>On the eye:</i>	Cause skin irritation.
	<i>Inhalation:</i>	May be harmful if inhaled. Material is irritating to mucus membranes and upper respiratory tract.
	<i>Ingestion:</i>	May be harmful is swallowed.
<b>Respiratory or Skin Sensitization</b>	No information available	
<b>Signs and Symptoms of Overexposure</b>	Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema.	
<b>Toxicity Data</b>	<i>Oral Rat</i>	900 mg/kg LD50

## Section 12. Ecological Information

<b>General Notes</b>	No data available
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## Section 13. Disposal Considerations

<b>Product</b>	Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.
<b>Contaminated Packaging</b>	Packing must be disposed of in accordance with federal, state, and local environment control regulations.

## Section 14. Transport Information

<b>DOT Shipping Name</b>	Hydrochloric Acid, Solution
<b>UN Proper Shipping Name</b>	Hydrochloric Acid
<b>DOT Hazard Class</b>	8
<b>Packing Group</b>	III
<b>UN Number</b>	UN1789
<b>Hazardous Ingredients</b>	Hydrochloric Acid
<b>DOT Label</b>	8 corrosive
<b>DOT Placard</b>	8 corrosive
<b>IMDG Shipping Name</b>	Hydrochloric Acid, Solution
<b>UN Number</b>	UN1789
<b>Class</b>	8
<b>Packing Group</b>	III
<b>IATA Shipping Name</b>	Hydrochloric Acid, Solution
<b>Technical Shipping Name</b>	Hydrochloric Acid
<b>IATA Hazard Class</b>	8

<b>UN Number</b>	UN1789
<b>Hazardous Ingredients</b>	Hydrochloric Acid
<b>IATA Label</b>	8 corrosive
<b>IATA Placard</b>	8 corrosive

## Section 15. Regulatory Information

<b>OSHA Status</b>	No data available	
<b>TSCA Status</b>	Yes	
<b>CERCLA Reportable Quantity</b>	Yes (contains hydrochloric acid (RQ=5,000 lbs))	
<b>SARA Title III</b>	Yes	
<b>RCRA Status</b>	No data available	
<b>California Proposition 65</b>	No data available	
<b>Chemical Weapons Convention</b>	No	
<b>TSCA 12 (b)</b>	No	
<b>SARA 311/312</b>	Acute:	Yes
	Chronic:	Yes
	Fire:	No
	Pressure:	No
	Reactivity:	No (mixture/liquid)
<b>Australian Hazchem Code</b>	None allocated	
<b>Poison Schedule</b>	None allocated	
<b>WHMIS</b>	This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.	

## Section 16. Other Information

Date Prepared: April 14, 2004  
Revised: May 19, 2015

For R&D use only. Not for drug, household, or other uses.

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