

# MATERIAL SAFETY DATA SHEET

Hydrochloric Acid 0.2 Normal in IPA

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Hydrochloric Acid 0.2 Normal in IPA

Product Code: 4132

Material Uses:

Manufacturer:

Science Stuff  
1104 Newport Ave

Austin, TX 78753  
(512) 837-6020

Entry Date : 6/5/2013

Print Date: 6/5/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	2
Flammability:	3
Reactivity:	0

Hazard Rating:  
Least Slight Moderate High Extreme  
0 1 2 3 4  
NA=Not Applicable NE=Not Established

## SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Hydrochloric Acid	CAS# 7647-01-0	1.6%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/m <sup>f</sup>
<input checked="" type="checkbox"/>	Isopropyl Alcohol (2-propanol)	CAS# 67-63-0	Balance	V/V	OSHA TWA 400 ppm, STEL 500 ppm

## SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. if irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

## SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: Vapor may travel considerable distance to

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source of ignition and flash back.

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Eliminate Ignition Sources. Neutralize with: Soda lime, soda ash. Absorb with vermiculite or other inert material. Place in container.

**SECTION 7 HANDLING AND STORAGE**

Store in a cool dry well ventilated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	~-89° C	Percent Volatile by Volume:	100%
Boiling Point:	~+82° C	Evaporation Rate	Information not available
Vapor Pressure:	33 @25° c	Evaporation Standard	
Vapor Density:	~2.1 (air = 1)	Auto Ignition Temp	399° C
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	2%
Appearance /Odors:	Clear water white / IPA smell	Upper Flamm. Limit in Air	12%
Flash Point:	~12° C (Closed Cup)		
Specific Gravity:	0.79		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability: Stable

Conditions to Avoid: Avoid heat and ignition sources

Materials to Avoid: Metals, strong bases, amines, strong oxidizers

Hazardous Decomposition Products: Carbon Oxides

Hazardous polymerization: Will Not Occur

Conditions to Avoid: None known

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**SECTION 11 Toxicological Information**

**SECTION 12 Ecological Information**

**SECTION 13 Disposal Considerations**

**SECTION 14 Transport Information**

DOT Classification: Flammable Liquid, n.o.s., (Isopropanol), 3,  
UN1993, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

**SECTION 16 Additional Information**

Conditions aggravated/Target organs: Persons with preexisting skin, eye, respiratory disorders may be more susceptible. Acute: Irritation to skin, eyes, lungs, mucous membranes and GI tract, nausea, narcosis, drowsiness, dizziness. Chronic: Dermatitis,

Flammability

Health

Reactivity

Revisions

NFPA

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