

MATERIAL SAFETY DATA SHEET

Hydrochloric Acid 0.5 Normal in Methanol

SECTION 1 . Product and Company Identification

Product Name and Synonym: Hydrochloric Acid 0.5 Normal in Methanol
Product Code: 4192
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:	3
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

Flash point 55 deg F. Warning! flammable liquid. Harmful if inhaled. May cause respiratory and digestive tract irritation. May cause severe eye irritation and possible injury. Ingestion may cause blindness. Cannot be made non-poisonous. See a

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input checked="" type="checkbox"/>	Hydrochloric Acid	CAS# 7647-01-0	4.5%	V/V	OSHA PEL (C) 5 ppm, (C) 7 mg/mf
<input checked="" type="checkbox"/>	Methanol (Methyl Alcohol)	CAS# 67-56-1	Balance	V/V	OSHA TWA 200 ppm, ACGIH STEL 250 ppm

SECTION 4 FIRST AID MEASURES

Flash point 55 deg F. Warning! flammable liquid. Harmful if inhaled. May cause respiratory and digestive tract irritation. May cause severe eye irritation and possible injury. Ingestion may cause blindness. Cannot be made non-poisonous. See a

FIRST AID: CALL A PHYSICIAN. SKIN: In case of contact, immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse.

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: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Induce vomiting giving one teaspoon of Syrup of Ipecac.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Carbon Dioxide, dry chemical powder or

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appropriate foam

Fire / Explosion Hazards: Vapor may travel considerable distance to 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. Absorb with vermiculite or other inert material. Place in container. If fire hazard exists, blanket spill with alcohol foam or use water spray to disperse vapors.

SECTION 7 HANDLING AND STORAGE

Use in a well ventilated area. Keep container closed when not in use. Do not get on skin in eyes or on clothing. Do not expose to temperatures above 140 deg F.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure. Use in a well ventilated area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	Information not available	Percent Volatile by Volume:	>99
Boiling Point:	Information not available	Evaporation Rate	2.0
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Information not available
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	5.5% in air by Vol.
Appearance /Odors:	Colorless with alcohol smell	Upper Flamm. Limit in Air	36.5% in air by Vol.
Flash Point:	~54 Deg F (Open cup)		
Specific Gravity:	~0.8		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable

Conditions to Avoid: Section 11

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Materials to Avoid: Section 11
Hazardous Decomposition Products: oxides of carbon
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

SECTION 12 Ecological Information

SECTION 13 Disposal Considerations

SECTION 14 Transport Information

DOT Classification: Flammable Liquid, Corrosive, n.o.s.
(Methanol, Hydrochloric Acid), 3,(8), UN2924,
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 to avoid/Incompatibilities: Avoid heat sparks, and open flames. Incompatible with Acids and Oxidizers. INGESTION: may be poisonous or fatal or cause blindness if swallowed. Exposure may adversely affect people with chronic disease of the central nervous system, skin, gastrointestinal tract or eyes. Corrosive effects.: Acute-Irritation possible to skin, eyes, lungs, mucous membranes, and GI tract. Chronic-none known. Conditions aggravated/Target organs: Persons with preexisting skin, eye, or respiratory disorders may be more susceptible.

Flammability

Health

Reactivity

Revisions

NFPA

0.1

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