

MATERIAL SAFETY DATA SHEET

Hydrochloric Acid 5% v/v

SECTION 1 . Product and Company Identification

Product Name and Synonym: Hydrochloric Acid 5% v/v

Product Code: H2651

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: | 0 |
| Reactivity: | 0 |

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

SECTION 2 HAZARD IDENTIFICATION

Causes severe irritation and burns. Harmful if swallowed. Avoid breathing vapor or dust. 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 | 5% | V/V | OSHA PEL (C) 5 ppm, (C) 7 mg/mf |
| <input type="checkbox"/> | Water, Deionized ASTM Type II | CAS# 7732-18-5 | Balance | V/V | None Established |

SECTION 4 FIRST AID MEASURES

Causes severe irritation and burns. Harmful if swallowed. Avoid breathing vapor or dust. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

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: 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: None

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

SECTION 6 ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in a chemical waste container. Neutralize with a weak base.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None required

Ventilation

Local Exhaust

Mechanical

Protective Gloves: Wear appropriate gloves to prevent skin exposure

Eye Protection: Splash Goggles

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|----------------------|--------------------------------|-----------------------------|---------------------------|
| Melting Point: | ~0° C | Percent Volatile by Volume: | > 95% |
| Boiling Point: | ~100° C | Evaporation Rate | Information not available |
| Vapor Pressure: | Information not available | Evaporation Standard | |
| Vapor Density: | Information not available | Auto Ignition Temp | Not applicable |
| Solubility in Water: | Soluble | Lower Flamm. Limit in Air | Not applicable |
| Appearance /Odors: | Clear colorless liquid/no odor | Upper Flamm. Limit in Air | Not applicable |
| Flash Point: | Information not available | | |
| Specific Gravity: | ~ 1 | | |

SECTION 10 STABILITY AND REACTIVITY INFORMATION

| | |
|-----------------------------------|-------------------------------------|
| Stability: | Stable |
| Conditions to Avoid: | Avoid Light |
| Materials to Avoid: | Halides, ammonia, phosphates, bases |
| Hazardous Decomposition Products: | HCL Fumes, Chlorine |
| 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: Hydrochloric Acid Solution, 8, UN1789, PG III

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

Overexposure symptoms: 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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