# **Safety Data Sheet**

# Hydrochloric Acid, 3M



### Section 1

# **Product Description**

**Product Name:** 

Hydrochloric Acid, 3M

Recommended Use:

Science education applications

Synonyms:

Muriatic Acid

Distributor:

Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398

Chemical Information:

800-227-1150 (8am-5pm (ET) M-F)

Chemtrec:

800-424-9300 (Transportation Spill Response 24 hours)

#### Section 2

## **Hazard Identification**

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

# **DANGER**



Causes severe skin burns and eye damage. Causes serious eye damage.

#### GHS Classification:

Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1

#### Section 3

# Composition / Information on Ingredients

**Chemical Name** 

CAS # 7732-18-5 <u>%</u> 90.8

Water Hydrogen Chloride

7647-01-0

9.2

### Section 4

### First Aid Measures

**Emergency and First Aid Procedures** 

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Skin Contact:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before reuse.

Ingestion:

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

### Section 5

# Firefighting Procedures

Extinguishing Media:

Water fog in flooding quantities. Apply water from as far a distance as possible.

Fire Fighting Methods and Protection:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards:

Fire or excessive heat may produce hazardous decomposition products.

**Hazardous Combustion Products:** 

Hydrogen chloride

### Section 6

# Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

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Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

Section 7

# Handling and Storage

Handling:

Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection.

Storage:

Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code:

White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

### Section 8

#### Protection Information

**ACGIH** 

OSHA PEL

Chemical Name Hydrogen Chloride (IWA) N/A

(STEL) 2 ppm (Ceiling) (TWA) N/A

(STEL) 5 ppm (Ceiling)

**Control Parameters** 

**Engineering Measures:** 

No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Lab coat, apron, eye wash, safety shower.

Personal Protective Equipment (PPE): Respiratory Protection:

No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

Respirator Type(s): Eve Protection:

NIOSH approved air purifying respirator with acid gas cartridge and dust/mist filter Wear chemical splash googles when handling this product. Have an eye wash station

available.

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving

Gloves:

Butyl rubber, Nitrile, Neoprene, Polyvinyl chloride

### Section 9

Formula:

Molecular Weight: 36.46 (Hydrogen Chloride)

Appearance: Colorless Liquid

Odor: Strong Pungent

Odor Threshold: No data available

pH: -0.4

Melting Point: No data available Boiling Point: No data available -85 C

Flash Point: No data available

Flammable Limits in Air: No data available

### Physical Data

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available

Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

### Section 10

# Reactivity Data

Reactivity:

No data available

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

None known.

Incompatible Materials:

Water-reactive materials, Water, Caustics (bases), Oxidizing materials, Acetic anhydride,

Amines, Alkanolamines, Isocyanates, Copper, Metals

**Hazardous Decomposition Products:** 

Hydrogen chloride

Hazardous Polymerization:

Will not occur

#### Section 11

#### Toxicity Data

Routes of Entry Symptoms (Acute):

Inhalation and ingestion. Respiratory Irritation

Delayed Effects:

Pulmonary Edema