#### Wallinckrodt Material Safety Data

Emergency Phone Number: 314-982-5000

makes no representation as to its comprehensiveness or accuracy.

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Mallinckrodt, Inc., Science Products Division, P.O. Box M, Paris, KY 43061.

#### PRODUCT IDENTIFICATION: HYDROCHLORIC ACID, 10:3%

Synonyms: Muriatic acid

Formula CAS No.: 7647-01-0

Molecular Weight: 36.46 (HCI)

Chemical Formula: HCI

Hazardous Ingredients: Not Applicable

## PRECAUTIONARY MEASURES

CAUSE SEVERE BURNS TO ALL BODY TISSUE. MAY BE FATAL CAUSE LUNG DAMAGE IF SWALLOWED, HARMFUL IF INHALED. INHALATION MAY DANGERI CORROSIVE. LIQUID AND MIST

Avoid breathing mist. Do not get in eyes, on skin, or on clothing.

Use only with adequate ventilation

Remove and wash contaminated clothing promptly.

This substance is classified as a POISON under the Federal Caustic Store in a tightly closed container. Wash thoroughly after handling.

## **EMERGENCY/FIRST AID**

SEE SECTION 5. respiration. If breathing is difficult, give oxygen. In all cases remove to fresh air. If not breathing, give artificial water for at least 15 minutes. If swallowed, DO NOT INDUCE call a physician. Never give anything by mouth to an unconscious person. If inhaled, VOMITING! Give large quantities of water or milk if available. In case of contact, immediately flush skin or eyes with plenty of

DOT Hazard Class: Corrosive Material

### SECTION 1 Physical Data

Appearance: Clear, colorless fuming liquid.

Odor: Pungent odor of hydrogen chloride.

Solubility: Infinite in water with slight evolution of

Boiling Point: 53°C (127°F); Azeotrope (20.2%)

boils at 109°C (228°F)

Melting Point: -74°C (-101°F)

Specific Gravity: 1.18

Vapor Density (Air = 1): No information found

Vapor Pressure (mm Hg): 190 @ 25°C (77°F)

Evaporation Rate: No information found,

# SECTION 2 Fire and Explosion Information

Can react with metals to release flammable hydrogen gas.

Not considered to be an explosion hazard

#### Fire Extinguishing Media:

If involved in a fire, use water spray

#### Special Information:

pressure mode. facepiece operated in the pressure demand or other positive NIOSH-approved self-contained breathing apparatus with full In the event of a fire, wear full protective clothing and

### SECTION 3 Reactivity Data

#### Stability:

may burst when heated. Stable under ordinary conditions of use and storage. Containers

## Hazardous Decomposition Products:

and will react with water or steam to produce heat and toxic and When heated to decomposition, emits toxic hydrogen chloride fumes corrosive fumes.

#### Hazardous Polymerization:

Will not occur.

with materials such as cyanides, sulfides, sulfites, and amines, carbonates and other alkaline materials. Incompatible reactive with strong bases, metals, metal oxides, hydroxides A strong mineral acid, concentrated hydrochloric acid is highly Incompatibilities:

# SECTION 4 Leak/Spill Disposal Information

fumes. Dispose in a RCRA-approved waste facility or sewer the earth, vermiculite). Provide forced ventilation to dissipate with alkaline material, pick up with absorbent material (sand, with excess water. Larger spills and lot sizes: Neutralize material (soda ash, lime, etc.). Sewer neutralized material vapors. Isolate or enclose the area of the leak or spill respiratory equipment suitable for toxic or corrosive fluids or Clean-up personnel should wear protective clothing and neutralized slurry with excess water if local ordinances allow. Small Spile: Flush with water and neutralize with alkaline

Reportable Quantity (RQ)(CWA/CERCLA): 5000 lbs.

Ensure compliance with local, state and federal regulations.

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: