# MATERIAL SAFETY DATA SHEET

### CORPORATION

1533 W.Henrietta Rd. Avon, New York 14414 (716) 226-6177

NAME ALO-8-NO-F-CHOW-OHIGGHOOUS AND SHEET

MSDS No. Effective Date

24 HOUR EMERGENCY ASSISTANCE

800-424-9300 Day 716-226-6177 Night 716-334-4222

> Health 2 퍊

CHEMTREC

HH 90 July 1, 1986

# SECTION V. HEALTH HAZARD DATA

Threshold Limited Value Hydrogen chloride as gas or fume: TWA Ceiling Limits TWA: 5 ppm; 7 mg/m³ (AIR). (ACGIH 1983-84).

HH 90

## Effects of Overexposure

Hydrochloric acid solutions at these dilutions are not skin or eye irritant, but may be irritant to mucous membranes. INGESTION: May be harmful if

#### First Aid Procedures Emergency and

٠

0

anything by mouth to an unconscious person. EYES: Flush thoroughly with INGESTION: If swallowed, if conscious, give several glasses of water or milk to drink. Do NOT induce vomiting. Call physician immediately. Never give water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get Remove to fresh air. Get medical attention immediate medical attention. SKIN; Flush with water. INHALATION:

REACTIVITY DATA  Conditions to Avoid Excessive temperatures or heat.
Will react with most metals, alkalies, strong oxidants.
Hydrogen chloride gas maybe evolved by heating. Hydrogen gas evolved by reaction with metals.
Conditions to Avoid
of processing.
SPILL OR LEAK PROCEDURES
material is released or spilled Carefully pour street with codium biochoods and Buck to come

with copious amounts of water Carefully neutralize with sodium bicarbonate and flush to sewer

## Waste Disposal Method

Carefully neutralize with sodium bicarbonate, soda ash, or lime and flush to sewer with copious amounts of water.

Discharge, treatment, or disposal may be subject to Federal, State or Local laws

Extinguisher Media

Use any media suitable for extinguishing supporting fire

Wethod Used)

Non-Itammable (NA).

Solubility in Water

Complete.

Appearance & Odor

Clear, colorless liquid; may have acrid odor.

FIRE AND EXPLOSION HAZARD

DATA

Flammable Limits in Air % by Volume

₹

SECTION IV

Vapor Pressure (mm Hg)

14 (water)

Evaporation Rate ( Ether Percent Volatile by Volume (%)

÷

Greater than 1.

Boiling Point (°F) Melting Point (°F)

SECTION II

CAUSE IRRITATION TO MUCOUS MEMBRANES

Freezes: Approx. 0°C (32°F)

Specific Gravity (H<sub>2</sub>O = 1)

6

100%

PHYSICAL DATA

Approx. 100°C (212°F)

WARNING! MAY BE HARMFUL IF SWALLOWED. MAY

Vapor Density (Air=1)

Principal Hazardous Component(s)

Hydrochloric Acid, 1.0 and 0.1 Normal Solution

3.6-0.36% %

See Section V. TLV Units C.A.S. No.

7647-01-0 1, 4 Liters

SECTION II

HAZARDOUS INGREDIENTS OF MIXTURES

NFPA
HAZARD RATING
LEAST SUGHT MODERATE

똪

EXTREME

Reactivity

Unit(s) Size ⊢ormula Synonyms Product SECTION

HCI/H<sub>2</sub>O

Hydrochloric Acid, 1.0 & 0.1 Normal Soln

Chemical

PROCEDURES

apparatus and full protective clothing.

In fire conditions, wear a NIOSH-approved self-contained breathing

SPECIAL FIREFIGHTING

#### Specify Type) espiration Protection SECTION VIII None need SPECIAL PROTECTION INFORMATION

or wear NIOSH-approved respira n normal laboratory handling. conditions work in ventilation hood

Protective Gloves Ventilation Mechanical (General) Local Exhaust Hubber, None needed. None needed. Eye Protection Special z 8 Chemical safety glasses.

### SECTION IX Smock, apron, eye wash station, goggles, ventilation hood, proper gloves SPECIAL PRECAUTIONS

Other Protective

Keep container tightly closed when not in use in Handling & Storing Precautions to be Taken

**EXPLOSION HAZARDS** UNUSUAL FIRE AND

Wash thoroughly after handling. Store in a cool place

Other Precautions Read label on container before using. Do not weer contact lonses when working with chemicals

Remove and wash contaminated dothing

For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Date 5/23/91 Approved

y as a supplement to other information gathered assure proper use of these materials and the

Alexander A. Piccirilli

ΑP

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20 D.O.T.

which may form explosive mixtures with air.

Non-combustible, but contact with common metals produce hydrogen

HYDROCHLORIC ACID, CORROSIVE MATERIAL, UN1789, ORM-D, 15% OR LESS Rev. No.

No.2

by them and must make indepe safety and health of employees