

MATERIAL SAFETY DATA SHEET

EM SCIENCE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|-----------------------------|---|
| Manufacturer.....: | Preparation Date.: 2/4/97 |
| A Division of EM Industries | Information Phone Number.: 856-423-6300 |
| P.O. Box 70 | Hours: Mon. to Fri. 8:30-5 |
| 480 Democrat Road | Chemtrec Emergency Number: 800-424-9300 |
| Gibbstown, N.J. 08027 | Hours: 24 hrs a day |

ZX0065 ZX0070 ZX0068 ZX0072 0088155B 00881564 0088156C

Zinc Chloride

Zinc Dichloride

Metal Salt

ZnCl2

2. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS # | Appr % |
|-----------|-----------|--------|
| | 7646-85-7 | 100% |

EMERGENCY OVERVIEW

HARMFUL IF INHALED OR SWALLOWED.

DELIQUESCENT.

Appearance:

White, deliquescent crystals or granules; odorless

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

Harmful if swallowed or inhaled.

Vapor irritating to eyes and respiratory passages.

Ingestion can damage throat and esophagus.

Contact can cause burns.

Prolonged contact causes severe burns and ulceration.

Possible lung damage.

Medical Cond. Aggravated by Exposure:

Respiratory conditions.

Routes of Entry:

Carcinogenicity:

The material is not listed (IARC, NTP, OSHA) as cancer causing

4. FIRST AID MEASURES

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Skin: Immediately flush thoroughly with large amounts of water.

Eyes: Immediately flush thoroughly with water for at least 15

Inhalation: Remove to fresh air; give artificial respiration if

Ingestion: Do not induce vomiting; get immediate medical

Remove contaminated clothing and wash before reuse.

5. FIRE FIGHTING MEASURES

Flash Point (F) : Noncombustible

Flammable Limits LEL (%): N/A

Flammable Limits UEL (%): N/A

Extinguishing Media . . :

Use any suitable for adjacent material.

Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing.

Corrosive to most metals when dissolved in water.

Thermal decomposition produces toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Spill Response:

Evacuate the area of all unnecessary personnel.

Wear suitable protective equipment listed under Exposure /

Eliminate any ignition sources until the area is determined to be

Contain the release and eliminate its source, if this can be done

Take up and containerize for proper disposal as described under

Comply with Federal, State, and local regulations on reporting

releases. Refer to Regulatory Information for reportable

7. HANDLING AND STORAGE

Handling & Storage:

Store in a cool, dry, well-ventilated area.

Do not breathe dust or vapor.

Do not get in eyes, on skin, or on clothing.

Retained residue may make empty containers hazardous; use

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:

Respiratory Protection: If workplace exposure limit(s) of product

or any component is exceededh Ey 17 (DA done)Tj 0T)cal NIOSH/MSHA apTj ate.5714 TD (o

NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier). Engineering and/or administrative controls should be implemented to reduce

Material must be handled or transferred in an approved fume hood

Protective gloves must be worn to prevent skin contact

Safety glasses with side shields must be worn at all times.

Melting Point (C). : 290C

EPA Waste Numbers:

Treatment:

Material does not have an EPA Waste number and is not a listed waste, however consultation with a permitted waste disposal site

ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

DOT Proper Shipping Name:

Zinc Chloride, Anhydrous

USs

Reactivity : 0

Revision History: 3/1/83 5/1/84 6/16/87 10/27/87 5/10/90 3/1/91

| = Revised Section

N/A = Not Available

The statements contained herein are offered for informational purposes only and are based upon technical data that EM SCIENCE believes to be accurate. It is intended for use only by persons having the necessary technical skill and at their own descretion and risk. Since conditions and manner of use are outside our control, we make NO WARRENTY, EXPRESS OR IMPLIED, OR MERCHANTABILITY, FITNESS OR OTHERWISE.