# elf atochem

### **PENNCOZEB 75DF**

-Material Safety Data Sheet-Elf Atochem North America, Inc.

### 1 PRODUCT AND COMPANY IDENTIFICATION

**EMERGENCY PHONE NUMBERS:** Agrichemicals Group

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887 Elf Atochem North America, Inc. Medical: Rocky Mountain Poison Control Center

2000 Market St.

(303) 623-5716 (24Hrs) Philadelphia, PA 19103-3222

Information Telephone Numbers Phone Number Available Hrs **R&D Technical Service** 610-878-6100 8:00am to 5:00pm EST

**Customer Service** 1-800-438-6071 8:00am - 5:00 pm EST

**Product Name** PENNCOZEB 75DF Product Synonym(s) Mancozeb 75%

**Chemical Family** Dithiocarbamate Chemical Formula (C4H6Mn2S4)X(Zn)y

**Chemical Name** Manganese Ethylenebis Complex with Zinc Ion

EPA Reg Num 4581-370

**Product Use** Fungicide to control plant diseases.

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS RegistryNumber	Typical Wt. %	OSHA
Mancozeb	8018-01-7	75	Y
Ethylene thiourea	96-45-7	Trace	Υ

The substance(s) marked with a "Y" in the OSHA column, are identified as hazardous chemicals according to the criteria of the OSHA Communication Standard (29 CFR 1910.1200)

### 3 HAZARDS IDENTIFICATION

# **Emergency Overview**

Grayish yellow solid microgranule, very slight cabbage like smell

CAUTION!

CAUSES EYE IRRITATION.

HARMFUL IF SWALLOWED. INHALED OR ABSORBED THROUGH SKIN.

Avoid contact with eyes, skin and clothing.

KEEP OUT OF REACH OF CHILDREN.

### **Potential Health Effects**

Inhalation and skin contact are expected to be the primary routes of occupational exposure to this material. Based on single exposure animal tests, it is considered to be no more than slightly toxic if swallowed, absorbed through skin or inhaled, moderately irritating to eyes and non-irritating to skin.

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### 4 FIRST AID MEASURES

IF IN EYES, Flush eyes with plenty of water. Call a physician if irritation persists.

IF ON SKIN, Wash with plenty of soap and water. Get medical attention.

IF SWALLOWED, Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

IF INHALED, Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

### **5 FIRE FIGHTING MEASURES**

### Fire and Explosive Properties

Auto-Ignition Temperature NE

Flash Point NE Flash Point Method

Flammable Limits- Upper NE

Lower NE

### **Extinguishing Media**

Use water spray, carbon dioxide, foam or dry chemical.

# **Fire Fighting Instructions**

Fire fighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent). Fire fighting equipment should be thoroughly decontaminated after use.

# Fire and Explosion Hazards

Avoid breathing fumes from fire exposed material.

### **6 ACCIDENTAL RELEASE MEASURES**

### In Case of Spill or Leak

Contain spill. Sweep or scoop up and remove to suitable container. Flush with water. Prevent spilled product from entering sewers or natural water. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

### 7 HANDLING AND STORAGE

### Handling

Do not breathe dust.

Wash thoroughly after handling. Use only with adequate ventilation. Keep container closed.

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

### Storage

This material is not hazardous under normal storage conditions; however, material should be stored in closed

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#### 7 HANDLING AND STORAGE

containers, in a secure area to prevent container damage and subsequent spillage. Store in original container. If allowed to become wet the product will deterioate and represent a fire hazard.

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Engineering Controls**

Investigate engineering techniques to reduce exposures. Provide ventilation if necessary to minimize exposures. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

### **Eye / Face Protection**

Where there is potential for eye contact, wear chemical goggles and have eye flushing equipment available.

### **Skin Protection**

Minimize skin contamination by following good industrial hygiene practice. Wearing rubber gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

### **Respiratory Protection**

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR § 1910.134.

### **Airborne Exposure Guidelines for Ingredients**

The components of this product have no established Airborne Exposure Guidelines

- -Only those components with exposure limits are printed in this section.
- -Skin contact limits designated with a "Y" above have skin contact effect. Air sampling alone is insufficient to accurately quantitate exposure. Measures to prevent significant cutaneous absorption may be required.
- -ACGIH Sensitizer designator with a value of "Y" above means that exposure to this material may cause allergic reactions.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odor Grayish yellow solid microgranule, very slight cabbage like smell

pH 7.43 @20 C (1%dispersion)

Specific Gravity NA
Vapor Pressure NE
Vapor Density NE

Melting Point Decomposes before melting Freezing Point Solid at room temperature

Boiling Point NA

Solubility In Water Dispersible Bulk Density 0.63 g/mL

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### 10 STABILITY AND REACTIVITY

## Stability

This material is chemically stable under normal and anticipated storage and handling conditions.

### **Hazardous Polymerization**

Does not occur.

### Incompatibility

Strong acids, strong oxidizers, and dampness.

#### **Hazardous Decomposition Products**

Ethylene thiourea and Carbon Disulfide

## 11 TOXICOLOGICAL INFORMATION

### **Toxicological Information**

Data on this material and/or its components are summarized below.

Single exposure (acute) studies indicate:

Oral - No More than Slightly Toxic to Rats (LD50 >4,470 mg/kg)

Dermal - No More than Slightly Toxic to Rabbits (LD50 >2,000 mg/kg)

Inhalation - No More than Slightly Toxic to Rats (4-hr LC50 >4.6 mg/l)

Eye Irritation - Moderately Irritating to Rabbits

Skin Irritation - Non-irritating to Rabbits

No skin allergy was observed in guinea pigs following repeated exposure. Repeated oral produced thyroid effects in dogs, rats and mice with possible neurotoxic effects in rats. Long-term studies in rats and mice produced no increased incidence of tumors. No adverse effects were observed when rats were exposed orally for 2 successive generations. Developmental effects were observed in the offspring of rats exposed orally during pregnancy, but only at amounts which produced significant adverse effects in the mother. No adverse effects were noted in the offspring of rabbits exposed orally during pregnancy.

## 12 ECOLOGICAL INFORMATION

## **Ecotoxicological Information**

No data are available.

### **Chemical Fate Information**

No data are available.

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# 13 DISPOSAL CONSIDERATIONS

### **Waste Disposal**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. This pesticide is toxic to fish. Do not apply directly to water or wetlands. Do not apply directly to water by cleaning of equipment or disposal of wastes.

#### 14 TRANSPORT INFORMATION

DOT Name Environmentally hazardous substances, solid, n.o.s.

DOT Technical Name Mancozeb

DOT Hazard Class 9
UN Number 3077
DOT Packing Group PG III

RQ

Marine Pollutant yes

DOT Special Information Penncozeb 75DF, when shipped domestically, by highway, in the U.S.A. can

be shipped as Not Regulated under DOT.

## 15 REGULATORY INFORMATION

# Hazard Categories Under Criteria of SARA Title IIII Rules (40 CFR Part 370)

 Immediate (Acute) Health
 Y
 Fire
 Y

 Delayed (Chronic) Health
 N
 Reactive
 N

 Sudden Release of Pressure
 N

### Ingredient Related Regulatory Information:

SARA Reportable QuantitiesCERCLA RQSARA TPQMancozebNEEthylene thiourea10 lbs.NE

#### SARA Title III, Section 313

This product does contain chemical(s) which are defined as toxic chemicals under and subject to the reporting requirements of, Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of 986 and 40 CFR Part 372. See Section 2

Ethylene thiourea

#### California Prop 65 - Carcinogen

This product does contain the following chemical(s), as indicated below, currently on the California list of Known Carcinogens.

Ethylene thiourea

Mancozeb

#### California Prop 65 - Developmental Toxin

This product does contain the following chemical(s), as indicated below, currently on the California List of Developmental Toxins. Ethylene thiourea

## Massachusetts Right to Know

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### Massachusetts Right to Know

This product does contain the following chemicals(s), as indicated below, currently on the Massachusetts Right to Know Substance List.

Ethylene thiourea

### New Jersey Right to Know

This product does contain the following chemical(s), as indicated below, currently on the New Jersey Right-to-Know Substances List. Ethylene thiourea

#### Pennsylvania Environmental Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Environmental Hazard List. Ethylene thiourea

## Pennsylvania Right to Know

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Hazardous Substance List. Ethylene thiourea

### Pennsylvania Special Hazard

This product does contain the following chemical(s), as indicated below, currently on the Pennsylvania Special Hazard List. Ethylene thiourea

### **16 OTHER INFORMATION**

#### **Revision Information**

Revision Date 26 OCT 2000 Revision Number 1

Supercedes Revision Dated

## **Revision Summary**

Add MSDS to system

### Key

NE= Not Established NA= Not Applicable (R) = Registered Trademark

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