

# **Safety Data Sheet**

**Revision Number: 4** 

# 1. Identification of the Substance/Preparation and of the Company/Undertaking

Revision date 02-Jan-2019

	2. Hazards Identification
	Medical: Rocky Mountain Poison Control Center (866) 673-6671 (24hrs)
Emergency telephone number	Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Company Phone Number	1-800-438-6071
Emergency telephone number	
King of Prussia, PA 19406	
Suite 402	
UPL NA Inc. 630 Freedom Business Center	
Supplier Address	
Details of the Supplier of the Safet	y Data Sheet
C C	
Uses advised against	Activities contrary to label recommendation
Recommended use	Fungicides.
Recommended use of the chemica	I and restrictions on use
Registration number(s)	70506-185
Product code	12-370
Other means of identification	40.070
Product Description:	PENNCOZEB® 75 DF
Product identifier	

**Classification** 

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4
Skin sensitization	Category 1
Reproductive Toxicity	Category 1B

## Label elements

## **EMERGENCY OVERVIEW**

# DANGER

# Hazard Statements

Harmful in contact with skin May cause an allergic skin reaction May damage fertility or the unborn child Toxic to aquatic life



Appearance grey Yellow brown	Physical state Free flowing microgranules	Odor Slight Rotten egg-like
Precautionary Statements - Prevention Do not handle until all safety precautions		
Wear cold insulating gloves/face shield/ey		
Do not get in eyes, on skin, or on clothing		
Contours in stand work, alathing, a hould not he		

Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

# **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor if you feel unwell Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention

## **Precautionary Statements - Storage**

Store locked up

# Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards Not Otherwise Classified (HNOC)

## OTHER INFORMATION

Causes mild skin irritation

· Very toxic to aquatic life

# 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Zinc manganese ethylenebis	8018-01-7	75
dithiocarbamate		
Ethylene thiourea	96-45-7	0-0.5
Sodium diisopropyl napthalene sulfonate	1332-93-6	2.07

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

# 4. First aid measures

# FIRST AID MEASURES

Eye contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Most Important Symptoms and Effe	ects, Both Acute and Delayed
Most Important Symptoms and	no data available.

## Effects

## Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician

No information available.

# 5. Fire-fighting measures

## Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media no data available.

# Specific hazards arising from the chemical

No information available.

Hazardous combustion products If heated to decomposition (>235 F) flammable ethylene is produced.

#### Explosion data

#### Protective equipment and precautions for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
Personal Precautions	I Precautions Avoid contact with skin and eyes. Wear protective gloves/protective clothing and eye/face protection. Wash thoroughly after handling.		
Environmental Precautions			
Environmental precautions	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. Do not flush into surface water or sanitary sewer system.		
Methods and material for containment and cleaning up			
Methods for Clean-Up	Sweep up and shovel into suitable containers for disposal.		
7. Handling and Storage			
Precautions for safe handling			
Handling	Avoid breathing dust. Keep out of reach of children. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.		
Conditions for safe storage, including any incompatibilities			
Storage	Keep tightly closed in a dry and cool place. If allowed to become wet the product will deteriorate and represent a fire hazard. Keep containers tightly closed in a cool, well-ventilated place.		
incompatible materials	Strong acids. Strong oxidizing agents. Aquatic. quaternary ammonium salts. EDBC sequestering agents.		
	8. Exposure Controls/Personal Protection		
Exposure guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.		

Engineering controls	Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. PESTICIDE APPLICATORS & WORKERS. THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.
Personal protective equipment	
Eye/Face Protection	Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields. If splashes are likely to occur, wear:. Goggles.
Skin protection Respiratory protection	Wear protective gloves/clothing. Long sleeved clothing. Socks and footwear. Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for 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. Respiratory protection programs must comply with 29 CFR 1910.134.

# General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

# 9. Physical and Chemical Properties

# Information on basic physical and chemical properties

Physical state Appearance color	Free flowing microgranules grey Yellow brown No information available	Odor	Slight Rotten egg-like
Property_	VALUES_	Remarks/ • Method	
pH	6.9		
Melting point/freezing point	7.9 °C / 46 °F		
Boiling Point/Range	No information available		
Flash Point	No information available		
Evaporation Rate	No information available		
Flammability (solid, gas)	No information available		
Flammability limit in air			
Upper Flammability Limit	No information available		
Lower Flammability Limit	No information available		
vapor pressure	No information available		
Vapor Density	No information available		
Specific gravity	No information available		
Water solubility	No information available		
Solubility in Other Solvents	No information available		
Partition coefficient: n-octanol/wate			
Autoignition temperature	159 C		
Decomposition temperature	No information available		
Viscosity, kinematic	No information available		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
OTHER INFORMATION			
Softening point	No information available		
molecular weight	No information available		
VOC Content	No information available		
Liquid Density	No information available		

#### Bulk density

0.63 g/ml

# 10. Stability and Reactivity

#### **Reactivity**

no data available

#### Chemical stability

Stable under recommended storage conditions.

## Possibility of hazardous reactions

None under normal processing.

## Conditions to avoid

Protect from water.

#### incompatible materials

Strong acids. Strong oxidizing agents. Aquatic. quaternary ammonium salts. EDBC sequestering agents.

#### Hazardous decomposition products

Lead oxides.

# **11. Toxicological Information**

#### Information on Likely Routes of Exposure

Product information	Mancozeb: Acute oral LD50 (rat) = >5.0 g/kg Acute dermal LD50 (rabbit) = >2.0 g/kg Acute Inalation LC50 (rat) = >5.2 mg/L - 4 hr
Inhalation	Harmful by inhalation.
Eye contact	Moderately irritating to the eyes.
Skin contact	May be harmful if absorbed through the skin.
Ingestion	MAY BE HARMFUL IF SWALLOWED.

#### Information on Toxicological Effects

Symptoms No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	May cause sensitization by skin contact.
Mutagenic effects	no data available.
Carcinogenicity	The information below indicates whether any agency has listed any ingredient as a
	carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethylene thiourea	-	Group 3	Reasonably Anticipated	Х
96-45-7				

IARC: (International Agency for Research on Cancer)

A trace contaminant, Ethylene thiourea (ETU) a breakdown product of Maneb, has been catergorized as a probable human carcinogen by NTP.

Reproductive effects	May damage fertility or the unborn child.
STOT - Single Exposure	no data available.
STOT - Repeated Exposure	no data available.
Aspiration hazard	No information available.

# Numerical Measures of Toxicity - Product information

LD50	Oral
LD50	Dermal
LC50	Inhalation

5000 mg/kg (rat) > 2000 mg/kg (rat) LC50/inhalation/4h/rat = > 20 mg/l (1 hr )

# **12. Ecological Information**

ecotoxicity

Mancozeb = Rainbow trout =0.73 mg/L 96 hrFathead minnow 0.57 mg/L 96 hr Bluegill sunfish = 0.84 mg/L 96 hrFreshwater algae = 0.43 mg/L 72 hr

#### Persistence/Degradability

no data available.

#### **Bioaccumulation/Accumulation**

No information available.

#### **Other Adverse Effects**

no data available

## **13. Disposal Considerations**

	Waste	Treatment	Methods
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Waste Disposal MethodPesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is<br/>a violation of Federal law. If the wastes cannot be disposed of by use or according to label<br/>instructions, contact your State Pesticide or Environmental Control Agency, or the<br/>Hazardous Waste representative at the nearest EPA Regional Office for guidance. Dispose<br/>of contents/container in accordance with local regulation.

**Contaminated packaging** Refer to product label.

# 14. Transport Information

Not regulated when shipped domestically by highway in non-buk containers as per 49 CFR 171.4

When shipped in bulk, by vessel, or internationally use the IMDG shipping description:

DOT

UN/ID no.	UN3077
Proper shipping name	Environmentally hazardous substances, solid, n.o.s Mancozeb
Hazard class	9
Packing group	PG III
Description	Marine pollutant
IMDG	

 UN/ID no.
 UN3077

 Proper shipping name
 Environmentally hazardous substances, solid, n.o.s (Mancozeb)

Hazard class	9
Packing group	PG III
Environmental hazards	IMDG - Marine Pollutant

# 15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

signal word	CAUTION
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Ventilation Control

PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170.

Keep out of Reach of Children. Causes moderate eye irritation. Harmful if swallowed. Harmful if inhaled or absorbed through skin. Toxic to fish.

International Inventories	
USINV	Not present
DSL/NDSL	Not present
EINECS/	Not Present
ELINCS	
ENCS	Not Present
China	Not Present
KECL	Not Present
PICCS	Not Present
AICS	Not Present
TSCA	Not Present

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

#### **CERCLA**

Not applicable

Chemical name	RQ	CERCLA EHS RQs	RQ
Ethylene thiourea	10 lb		RQ 10 lb final RQ RQ 4.54 kg final
96-45-7			RQ
CERCLA			
Co	omponent		RQ
Ethy	ene thiourea		10 lb
96-4	45-7(0-0.5)		
SARA Product RQ	0		

RCRA

NFPA

Component	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ethylene thiourea			U116
96-45-7 (0-0.5)			

# Pesticide Information

# **State Regulations**

Component	CAS No	CATEGORY
Zinc manganese ethylenebis dithiocarbamate	8018-01-7	Carcinogen
8018-01-7 ( 75 )		
Ethylene thiourea	96-45-7	Carcinogen
96-45-7 ( 0-0.5 )		
Component	California Prop. 65	Non-additive, corrosive chemical type
Zinc manganese ethylenebis dithiocarbamate	Carcinogen	
8018-01-7 ( 75 )		
Ethylene thiourea	Carcinogen	
96-45-7 ( 0-0.5 )	Developmental	

#### State Right-to-Know Not applicable International regulations U.S. EPA Label information EPA Pesticide registration number 70506-185

#### **16. Other Information HEALTH** 2 flammability 0 Instability 0 Physical hazard -02-May-2015 **Preparation Date** 02-Jan-2019 **Revision date Revision Summary** Update logo Update section 1 Update Section 16\*\*\* Disclaimer UPL NA Inc. believes that the information and recommendations container herein (including data and statements) are

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