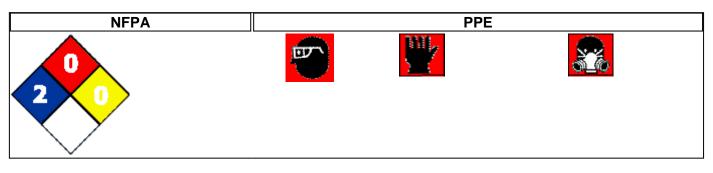


# **United Phosphorus, Inc.**



Issued Date 02-Nov-2007

Revision Date 20-Aug-2013

Revision Number: 10

# **1. PRODUCT AND COMPANY IDENTIFICATION**

# UPI

**Product Code** 

630 Freedom Business Center Suite 402 King of Prussia,PA 19406

#### Emergency Telephone Number Chemtrec: (800) 424-9300 (24brs) or

Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887 Medical: Rocky Mountain Poison Control Center (866) 673-6671 (24hrs)

<b>Company Information</b>	<b>Contact Information</b>	Phone Number	Available Hrs
UPI	Customer Service R&D Technical Service	1-800-438-6071 610-878-6100	8:00 am to 5:00 pm EST 8:00 am - 5:00 pm (EST)
Product Name EPA Reg # Recommended Use	PENNCOZEB® 75 DF 70506-185 fungicide		

12-370

# 2. HAZARDS IDENTIFICATION

	Emergency Overview Mild eye irritation	
Harmful	by inhalation, in contact with skin and if sw	allowed
CAUTION		
Appearance Grey, Yellow, Brown.	Physical State Free flowing microgranules.	Odor Slight. Rotten egg-like.
Potential Health Effects		

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Zinc manganese ethylenebis dithiocarbamate	8018-01-7	75	N/A
Ethylene thiourea	96-45-7	0-0.5	N/A

4. 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 poison control center or doctor for treatment advice.		
Inhalation	If breathing is irregular or stopped, administer artificial respiration May cause allergic respiratory reaction Call a poison control center or doctor for further treatment advice.		
Ingestion	Call a physician or poison control center immediately May produce an allergic reaction Do not induce vomiting unless told to do so by a poison control center or doctor Never give anything by mouth to an unconscious person		
Notes to Physician	No information available		
5. FIRE-FIGHTING MEASURES			

Flammable Explosive Properties				
Flash Point Autoignition Temperature 159 C		Not available		
Flammability Limits in Air		Not available		
Extnguishing Media		Use: Water spray, Carbon dioxide (CO2), Dry cher	nical.	
Fire/Explosion Hazard		Firefighters and others who may be exposed to pro combustion should wear full fire fighting turn out ge self-contained breathing apparatus. Fire fighting e should be thoroughly decontaminated after use.	ear and	
Hazardous Combustion Products If heated to decomposition (>235 F) flammable ethylene is produced.				
NFPA Heal	th 2	Flammability 0	Instability 0	
	6. ACCIDENTAL RI	ELEASE MEASURES		
<b>Personal Precautions</b> Avoid contact with the skin and the eyes. Ensure adequate ventilation.				
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 pertinenet environmental permits. Do not flush into surface water or sanitary sewer system.			
Methods for Clean-up	Sweep up and shovel into suitable containers for disposal.			
7. HANDLING AND STORAGE				
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.			
Storage	Keep tightly closed in a will deteriorate and rep	a dry and cool place. If allowed to become wet present a fire hazard.	the product	

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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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	Avoid contact with eyes. Goggles.
Skin Protection	Long sleeved clothing. Long pants. Coveralls. Chemical resistant gloves. waterproof gloves. Socks and footwear.
Respiratory Protection	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**

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance Physical State Boiling Point/Range Specific Gravity Evaporation Rate Vapor Density Viscosity Bulk Density Percent Volatiles
- Grey Yellow Brown Free flowing microgranules Not available Not available Not available Not available 0.63 g/ml Not available
- Odor pH Melting Point/Range Solubility Vapor pressure VOC Content Molecular Weight Percent Solids
- Slight Rotten egg-like (1% solution) 6.9 Decomposes before melting Dispersible in water Not available Not available no data available Not available

## **10. STABILITY AND REACTIVITY**

Stability	Stable under recommended storage conditions
Conditions to Avoid	Protect from water
Incompatible Materials	Strong acids Strong oxidizing agents Water quaternary ammonium salts EDBC sequestering agents
Hazardous Decomposition Products	Oxides of carbon and nitrogen
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

**Chronic Toxicity** 

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	

### 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.

# **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

No information available.

13. DISPOSAL CONSIDERATIONS				
Waste Disposal Method	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Dispose of contents/container in accordance with local regulation.			
Contaminated Packaging	Non refillable container. Do not reuse this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.			
14. TRANSPORT INFORMATION				
DOT	When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated. When shipped in bulk, by vessel, or internationally use the IMDG shipping description:			
ICAO UN-No Proper Shipping Name Hazard Class Packing Group	UN3077 Environmentally hazardous substance, solid, n.o.s mancozeb 9 PG III			
IATA UN-No	3077			

Proper Shipping Name Hazard Class Packing Group ERG Code	Environmentally hazardous substances, solid, n.o.s. mancozeb 9 PG III 9L
IMDG/IMO	
Proper Shipping Name	Environmentally hazardous substances, solid, n.o.s. (Mancozeb)
Hazard Class	9
UN-No	3077
Packing Group	PG III
Marine pollutant	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

**15. REGULATORY INFORMATION** 

#### **International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS/ ELINCS	ENCS	CHINA	KECL	AICS
Zinc manganese ethylenebis dithiocarbamate					(2)-2127 (2)-1841	Х	KE-13636	Х
Ethylene thiourea	Present	Х		Х	(5)-423	Х	KE-20941	Х

#### USA

# **Federal Regulations**

## **SARA 313**

v		
r		

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Ethylene thiourea	96-45-7	0-0.5	0.1

#### SARA 311/312 Hazardous Categorization

Chronic Health Hazard	No
Acute Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

# **Clean Water Act**

# Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) This product contains the following HAPs:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Zinc manganese ethylenebis dithiocarbamate	8018-01-7	75				
Ethylene thiourea	96-45-7	0-0.5				

## CERCLA

Component	RQ
Ethylene thiourea	10 lb
96-45-7 (0-0.5)	

#### RCRA

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

## Pesticide Information

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Zinc manganese ethylenebis dithiocarbamate 8018-01-7 (75)			Х	
Ethylene thiourea 96-45-7 (0-0.5)			Х	

#### **State Regulations**

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	Category	California Prop. 65	Non-additive, corrosive chemical type
Zinc manganese ethylenebis dithiocarbamate	8018-01-7	Carcinogen	Carcinogen	
Ethylene thiourea	96-45-7	Carcinogen	Carcinogen Developmental	

#### State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Zinc manganese ethylenebis dithiocarbamate				Х	
Ethylene thiourea	Х	Х	Х	Х	

### **International Regulations**

Mexico - Grade

Mexico - Grade

Component	Category	Carcinogen Status	Exposure Limits
Zinc manganese ethylenebis dithiocarbamate 8018-01-7 (75)	Carcinogen		
Ethylene thiourea 96-45-7(0-0.5)	Carcinogen		

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

WHMIS Hazard Class

Chemical Name	NPRI
Ethylene thiourea	Х

# **16. OTHER INFORMATION**

**Revision Date** 

20-Aug-2013

#### **Revision Summary**

Recurrent confirmation/update of data

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End of MSDS