

# **United Phosphorus, Inc.**

NFPA	PPE	
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**Revision Number: 1** 

## **1. PRODUCT AND COMPANY IDENTIFICATION**

<b>UPI</b> 630 Freedom Business Center Suite 402 King of Prussia,PA 19406	Emergency Telephone Number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887 Medical: Rocky Mountain Poison Control Center (866) 673-6671 (24hrs)				
Company Information	Contact Information	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 Product Code	Manzate Max Fungicide 70506-194 fungicide 12-394X				
	2. HAZARDS II	DENTIFICATION			
Emergency Overview Mild eye irritation					

Harmfu	ed	
CAUTION Appearance Yellow, Green.	Physical State Liquid.	Odor Pungent.
Potential Health Effects		
- Inhalation		

- Skin contact Eyes Skin Inhalation Ingestion

Irritating to eyes. Irritating to skin. Slightly toxic if inhaled. May be harmful if swallowed.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

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### **Ingredients Name**

Chemical Name	CAS-No	Weight %	OSHA PEL
Zinc manganese ethylenebis dithiocarbamate	8018-01-7	37	N/A
Ethylene thiourea	96-45-7	0-0.5	N/A
Napthalenesulfonic acid, sodium salt, polymer with	9008-63-3	1.47	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

Not available Not available			
Not available			
Use: Water spray, Carbon dioxide (CO2), Foam, Dry chemical.			
Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.			
Carbon disulfide, ethylene thiourea (ETU).			
Flammability 0 Instability 0			

6. ACCIDENTAL RELEASE MEASURES					
Personal Precautions	Avoid contact with the skin and the eyes. Use personal protective equipment.				
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	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.				
	7. HANDLING AND STORAGE				
Handling	Avoid contact with skin, eyes and clothing. Keep out of reach of children.				
Storage	Keep tightly closed in a dry and cool place. Keep in properly labelled containers.				
8. EXPO	SURE 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	Avoid contact with eyes. Goggles.				
Skin Protection	Coveralls. Long sleeved clothing. Long pants. 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** Do not eat, drink or smoke when using this product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical State Boiling Point/Range Specific Gravity Evaporation Rate Vapor Density Viscosity Bulk Density Percent Volatiles	Yellow Green Liquid Not available 1.27-1.33 Not available Not available 1270 kg/m <sup>3</sup> Not available	Odor pH Melting Point/Range Solubility Vapor pressure VOC Content Molecular Weight Percent Solids	Pungent 8 Not available Dispersible in water Not available Not available no data available Not available			
10. STABILITY AND REACTIVITY						
Stability		Stable under recommend	ded storage conditions			
Conditions to Avoid		No information available				
Incompatible Materials		Strong oxidizing agents a ammonium salts EDBC s				

**Hazardous Decomposition Products** 

**Possibility of Hazardous Polymerization** 

Hazardous polymerisation does not occur

Oxides of carbon and nitrogen Oxides of sulfur

### 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

**Product Information** 

Manzate Max= Acute oral LD50 = >5,000 mg/kg Acute dermal LD50 = >5,000 mg/kg Acute inhalation LC50 = >2.02 mg/L Eye irritation = Slight Dermal irritation = Slight Skin sensitizer = Not a sensitizer

#### 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	

# **12. ECOLOGICAL INFORMATION**

# Ecotoxicity

Mancozeb:
Aquatic tocicity:
96 hour LC50 = rainbow trout 0.73 mg/L
96 hour LC50 = fathead minnows 0.57 mg/L
96 hour LC50 = Bluegill sunfish 0.84 mg/L

72 hour EC50 = freshwater algae = 0.43 mg/L.

# **13. DISPOSAL CONSIDERATIONS**

Waste Disposal Method	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide rinsate is a violation of Federal law. If the wastes cannot be disposed of by u 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 wi local regulation.			
Contaminated Packaging	Non refillable container. Do not reuse this container. Triple rinse (or equivalent) promptly after emptying. Refer to product label.			
	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 following shipping description:			
ICAO UN-No Proper Shipping Name Hazard Class Packing Group	UN3082 Environmentally hazardous substance, liquid, n.o.s (Mancozeb) 9 PG III			
IATA UN-No Proper Shipping Name Hazard Class Packing Group ERG Code	UN3082 Environmentally hazardous substances, liquid, n.o.s. (Mancozeb) 9 PG III 9L			
IMDG/IMO Proper Shipping Name Hazard Class UN-No Packing Group Marine pollutant	Environmentally hazardous substances, liquid, n.o.s. (Mancozeb) 9 UN3082 PG III 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
Napthalenesulfonic acid, sodium salt, polymer with	XU	Х			(4)-557 (7)-1133	Х	KE-25576	Х

#### USA

#### **Federal Regulations**

#### **SARA 313**

Υ

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	37				
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**

### 12-394X Manzate Max Fungicide

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 (37)			Х	
Ethylene thiourea 96-45-7 (0-0.5)			Х	
Napthalenesulfonic acid, sodium salt, polymer with 9008-63-3 (1.47)		List 3 - Unknown Toxicity	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				Х	
dithiocarbamate					
Ethylene thiourea	Х	Х	Х	Х	

#### **International Regulations**

Mexico - Grade

Not available

Component	Category	Carcinogen Status	Exposure Limits
Zinc manganese ethylenebis dithiocarbamate 8018-01-7 (37)	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

Not determined

Chemical Name	NPRI
Ethylene thiourea	Х

# **16. OTHER INFORMATION**

**Revision Date** 

19-Jun-2012

Revision Summary Add to system

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End of MSDS