

# **Safety Data Sheet**

United Phosphorus, Inc.

Preparation Date 01-May-2015

Revision date 01-May-2015

**Revision Number: 1** 

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

Product identifier Product Description:

Manzate Max T & O Fungicide

Other means of identification Item#: Synonyms Registration number(s)

12-394XX Not Available 70506-194

Recommended use of the chemical and restrictions on useRecommended useFungicide.Uses advised againstActivities contrary to label recomendation

Details of the Supplier of the Safety Data SheetSupplier AddressUnited Phosphorus Inc.630 Freedom Business CenterSuite 402King of Prussia, PA 19406Emergency telephone numberCompany Phone NumberEmergency telephone numberChemtrec: (800) 424-9300 (24hrs) or (703) 527-3887Medical: Rocky Mountain Poison Control Center(866) 673-6671 (24hrs)

# 2. Hazards Identification

**Classification** 

#### **OSHA Regulatory Status**

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

Acute toxicity - Inhalation (Vapors)	Category 3
Skin sensitization	Category 1
Reproductive Toxicity	Category 1B

#### Label elements

DANGER

**EMERGENCY OVERVIEW** 

**hazard statements** Toxic if inhaled May cause an allergic skin reaction May damage fertility or the unborn child



appearance Yellow Green	Physical state liquid	Odor pungent

# **Precautionary Statements - Prevention**

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Do not handle until all safety precautions have been read and understood Do not handle until all safety precautions have been read and understood Wear cold insulating gloves/face shield/eye protection Do not get in eyes, on skin, or on clothing Use only outdoors or in a well-ventilated area 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 If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician

# **Precautionary Statements - Storage**

Store locked up Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

Very toxic to aquatic life

May be harmful in contact with skin

# 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
1,2-Benziosothiazolin-3-one (Proxel GXL)	2634-33-5	0.16	
Zinc manganese ethylenebis dithiocarbamate	8018-01-7	37	
Ethylene thiourea	96-45-7	0-0.5	

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	
General advice	Show this safety data sheet to the doctor in attendance. If symptoms persist, call a physician.
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	Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water for at least 15 minutes. Call 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. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.	
Protection of First-aiders	Use personal protective equipment.	
Most Important Symptoms and Effect	cts, Both Acute and Delayed	
Most Important Symptoms and Effects	No information available.	
Indication of Any Immediate Medical Attention and Special Treatment Needed		

Notes to physician

Treat symptomatically.

# 5. Fire-fighting measures

# Suitable extinguishing media Carbon dioxide (CO2).

Carbon dioxide (CO2). Use:. Dry chemical. Water spray. alcohol-resistant foam.

Unsuitable extinguishing media No information available.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours.

Hazardous combustion productsCarbon disulfide, ethylene thiourea (ETU).

#### 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	Avoid contact with the skin and the eyes. Wear protective gloves/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 pertinenet environmental permits.	
Methods and material for containm	ent and cleaning up	
Methods for Clean-Up	Soak up with inert absorbent material. 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	
Precautions for safe handling		
Handling	Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Wear personal protective equipment. Do not breathe vapours or spray mist. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.	
Conditions for safe storage, including any incompatibilities		
Storage	Keep containers tightly closed in a cool, well-ventilated place.	

#### incompatible materials

Strong oxidizing 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.		
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. Face-shield.		
Skin protection	Long sleeved clothing. Chemical resistant gloves. Chemical resistant footwear plus socks.		
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. 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	liquid Yellow Green No information available	Odor	pungent
Property pHMelting point/freezing pointBoiling Point/RangeFlash PointEvaporation Rateflammability (solid, gas)Flammability limit in air Upper Flammability Limit Lower Flammability Limit vapor pressureVapor Density Specific gravity Water solubility Solubility in Other Solvents Partition coefficient: n-octanol/wate Autoignition temperature decomposition temperature Viscosity, kinematic	VALUES         8         9 °C / 48 °F         No information available         No	Remarks/ • Method	
Dynamic viscosity Explosive properties Oxidizing properties	No information available No information available No information available		

# **OTHER INFORMATION**

Softening point
molecular weight
VOC Content
density
Bulk density

No information available No information available No information available No information available 1270 kg/m<sup>3</sup>

# **10. Stability and Reactivity**

Reactivity no data available

Chemical stabilityStable under normal conditions. Hazardous polymerisation does not occur.Possibility of hazardous reactionsNone under normal processing.Hazardous polymerizationHazardous polymerisation does not occur.

Conditions to avoid No information available. incompatible materials Strong oxidizing agents. Hazardous decomposition products Carbon oxides.

# **11. Toxicological Information**

#### Information on Likely Routes of Exposure

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
Inhalation	Harmful by inhalation.
Eye contact	May cause slight irritation.
Skin contact	May be harmful if absorbed through the skin.
Ingestion	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 Mutagenic effects Carcinogenicity	No information No information The information carcinogen.	n available.	ether any agency has listed any in	gredient as a
Chemical name	ACGIH	IARC	NTP	OSHA
Ethylene thiourea 96-45-7	-	Group 3	Reasonably Anticipated	Х
Reproductive effects STOT - Single Exposure	Not Available. No information			

STOT - repeated exposure	No information available.
Chronic toxicity	Avoid repeated exposure.
Aspiration hazard	No information available.
Numerical Measures of Toxicity - I	Product information
LD50 Oral	> 5000 mg/kg (rat)
LD50 Dermal	> 5000 mg/kg (rat)
LC50 Inhalation:	> 2.02 mg/l

# **12. Ecological Information**

This product contains a chemical which is listed as a marine pollutant according to DOT.

#### ecotoxicity

Manzate: 96 hr LC50 Rainbow trout -= 0.73 mg/L Fathead minnow = 0.57 mg/L Bluegill sunfish = 0.84 mg/L 72 hr EC50 Freshwater algae = 0.43 mg/L

#### Persistence/Degradability

No information available.

# **Bioaccumulation/Accumulation**

Does not bioaccumulate.

Chemical name	Log Pow
1,2-Benziosothiazolin-3-one (Proxel GXL)	1.3
2634-33-5	

#### Other Adverse Effects

No information available

# **13. Disposal Considerations**

#### Waste Treatment Methods

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.

#### **Contaminated packaging**

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Ethylene thiourea	U116	Included in waste streams:		U116
		K123, K124, K125, K126		

Refer to product label.

# **14. Transport Information**

DOTWhen shipped domestically by highway in non-bulk containers this product can be shipped<br/>as not regulated. When shipped in bulk, by vessel, or internationally use the IMDG shipping<br/>description:<br/>This product contains a chemical which is listed as a marine pollutant according to DOT.

Marine Pollutant: Y or N [List This product contains a chemical which is listed as a marine pollutant according to TDG. Ingredient(s) with %]

ICAO UN-No Proper shipping name Hazard class Packing group	UN3082 Environmentally hazardous substance, liquid, n.o.s Mancozeb 9 PG III
<u>IATA</u> UN-No Proper shipping name Hazard class Packing group	UN3082 Environmentally hazardous substances, liquid, n.o.s Mancozeb 9 PG III
IMDG/IMO UN-No Proper shipping name Hazard class Packing group Marine Pollutant	UN3082 Environmentally hazardous substances, liquid, n.o.s (Mancozeb) 9 PG III This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

# **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

**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. Harmful if swallowed. Harmful if inhaled or absorbed through skin. Toxic to fish and aquatic organisms.

International Inventories	
USINV	Not determined
DSL/NDSL	Not determined
EINECS/	Does not comply
ELINCS	
ENCS	Does not comply
China	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
TSCA	Does not comply

 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 and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values
Ethylene thiourea - 96-45-7	0.1
SARA 311/312 Hazardous	
Categorization	
Acute health hazard	yes
Chronic health hazard	yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	yes

Chemical name	RQ		CERCLA EHS RQs	RQ
Ethylene thiourea 96-45-7	10 lb			RQ 10 lb final RQ RQ 4.54 kg final RQ
CERCLA	•			·
C	omponent			RQ
Ethylene thiourea		10 lb		
96-4	45-7(0-0.5)			

# SARA Product RQ

#### RCRA

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

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# State Regulations

Component	CAS-No	CATEGORY	California Prop. 65	Non-additive, corrosive chemical type
Zinc manganese ethylenebis dithiocarbamate 8018-01-7 (37)	8018-01-7	Carcinogen	Carcinogen	
Ethylene thiourea 96-45-7 (0-0.5)	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

U.S. EPA Label information

**EPA Pesticide registration number** 70506-194

# **16. Other Information**

<u>NFPA</u>	HEALTH 1	flammability 0	Instability 0	Physical hazard -
Preparation Date Revision date Revision Summary Update to GHS format	01-May-20 01-May-20			

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End of MSDS