

# **Safety Data Sheet**

Preparation Date 07-Feb-2019 Revision date 07-Feb-2019 Revision Number: 2

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

Identification of the product

Product Description Manzate Max

Other means of identification

Product code 12-394XCA Registration number(s) PCPA 33299

Recommended use of the chemical and restrictions on use

Recommended use Fungicides.

Uses advised against Activities contrary to label recommendation

**Details of the Supplier of the Safety Data Sheet** 

**Supplier Address** 

UPL NA Inc.

630 Freedom Business Center

Suite 402

King of Prussia, PA 19406

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887

Medical: 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

### **EMERGENCY OVERVIEW**

#### **DANGER**

### **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**

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-%
1,2-Benziosothiazolin-3-one (Proxel	2634-33-5	0.16
GXL)		
Zinc manganese ethylenebis	8018-01-7	37
dithiocarbamate		
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**

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 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. 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 Effects, Both Acute and Delayed

Most Important Symptoms and

**Effects** 

no data 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).

Use:. Dry chemical. Water spray. alcohol-resistant foam.

Unsuitable extinguishing media no data available.

#### Specific hazards arising from the chemical

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

Hazardous combustion products Carbon 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 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.

### Methods and material for containment 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

Respiratory protection

Long sleeved clothing. Chemical resistant gloves. Chemical resistant footwear plus socks. 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 Liquid

Appearance Yellow Green Odor pungent

**color** No information available

Property VALUES Remarks/ • Method

**pH** 8

Melting point/freezing point 9 °C / 48 °F

Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid, gas)

No information available
No information available
No information available
No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
vapor pressure
Vapor Density

No information available
No information available
No information available
No information available

Specific gravity 1.27-1.33

Water solubility
Solubility in Other Solvents
No information available
Partition coefficient: n-octanol/waterNo information available

Autoignition temperatureno data availableDecomposition temperatureNo information availableViscosity, kinematicNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

**OTHER INFORMATION** 

Softening point No information available molecular weight No information available

12-394XCA Manzate Max

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VOC ContentNo information availableLiquid DensityNo information available

Bulk density 1270 kg/m<sup>3</sup>

### 10. Stability and Reactivity

### Reactivity

no data available

### **Chemical stability**

Stable under normal conditions. Hazardous polymerisation does not occur.

### Possibility of hazardous reactions

None under normal processing.

**Hazardous polymerization** Hazardous 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= oral LD50 = >5,000 mg/kgdermal LD50 = >5,000 mg/kginhalation LC50 =

>2.02 mg/L No deathsirritation = Slight irritation = Slightsensitizer = 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**No information available. **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	X
96-45-7		•		

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
Not Available.
no data available.
no data available.

Chronic toxicity Avoid repeated exposure.

Aspiration hazard No information available.

### Numerical Measures of Toxicity - Product information

 LD50 Oral
 > 5000 mg/kg (rat)

 LD50 Dermal
 > 5000 mg/kg (rat)

 LC50 Inhalation
 > 2.02 mg/l

### 12. Ecological Information

#### 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 data available.

#### **Bioaccumulation/ Accumulation**

Bioaccumulative potential.

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

### **Other Adverse Effects**

no data 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** Refer to product label.

### 14. Transport Information

**DOT** 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:

<u>IATA</u>

UN/ID no. UN3082

Proper shipping name Environmentally hazardous substances, liquid, n.o.s Mancozeb

Hazard class 9
Packing group PG III

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**Description** Marine pollutant

**IMDG** 

UN/ID no. UN3082

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

Hazard class 9

Packing group PG III

Environmental hazards IMDG - Marine Pollutant

### 15. Regulatory Information

This chemical/product is a pesticide product registered by the PMRA and is subject to specific label requirements under these regulations. The requirements may differ classification and hazard information required for safety data sheets and for labels of non-pesticide products. The following is information as required on the registered product label.

signal word WARNING

Keep out of Reach of Children. Potential skin sensitizer. Toxic to fish.

### **International Inventories**

USINV Present
DSL/NDSL Not present
EINECS/ Not Present

**ELINCS** 

ENCS Not Present
China Present
KECL Present
PICCS Present
AICS Present
TSCA Not Present

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			_

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

SARA Product RQ

0

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

#### **RCRA**

<u></u>			
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		California Prop. 65
Zinc manganese ethylenebis dithiocarbama	rbamate Carcinogen	
8018-01-7 ( 37 )		
Ethylene thiourea	Carcinogen	
96-45-7 ( 0-0.5 )		-
Chemical name	CAS No	CATEGORY
Zinc manganese ethylenebis dithiocarbamate	8018-01-7	Carcinogen
Ethylene thiourea	96-45-7	Carcinogen

**Prop 65 Pictogram** 

**Prop 65 Warning Statement** California Proposition 65

WARNING!

This product can expose you to chemicals which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

State Right-to-Know

Not applicable

California Proposition 65

This product contains the following Proposition 65 chemicals:

International regulations U.S. EPA Label information

EPA Pesticide registration number PCPA 33299

### 16. Other Information

NFPA **HEALTH** 1 flammability 0 Instability 0 Physical hazard -

**Preparation Date** 07-Feb-2019 07-Feb-2019 **Revision date** 

**Revision Summary** Add to system

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**End of SDS**