

# **Safety Data Sheet**

Preparation Date 20-May-2015 Revision date 06-Jan-2019 Revision Number: 2

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

Product identifier

Product Description: Manzate Pro-Stick

Other means of identification

Product code 12-371CAN UN/ID no. UN3077

Registration number(s) PCPA Canada Registration No - 28217

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 - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4
Skin sensitization	Category 1
Reproductive Toxicity	Category 2

#### Label elements

## **EMERGENCY OVERVIEW**

#### WARNING

#### Hazard Statements

Harmful in contact with skin May cause an allergic skin reaction Suspected of damaging fertility or the unborn child Harmful if inhaled



Appearance Yellow Physical state solid Odor Slight Rotten egg-like

#### **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 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

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-%
Mancozeb	8018-01-7	75
Ethylene thiourea	96-45-7	0-0.1

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**

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact Eye contact

lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice.

Skin contact Remove contaminated clothing and shoes. Rinse skin immediately with plenty of water for

15-20 minutes. Call a poison control center or doctor for treatment advice. Remove and

wash contaminated clothing before re-use.

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 poison control center or

doctor for further treatment advice.

Never give anything by mouth to an unconscious person. Do not induce vomiting without Ingestion

medical advice. Call a physician or poison control center immediately.

Revision date 06-Jan-2019

#### Most Important Symptoms and Effects, 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 Treat symptomatically.

## 5. Fire-fighting measures

#### Suitable extinguishing media

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

Unsuitable extinguishing media no data available.

#### Specific hazards arising from the chemical

No information available.

**Hazardous combustion products**Carbon disulfide, ethylene thiourea (ETU). Sulfur oxides. Oxides of nitrogen. Oxides of carbon.

#### **Explosion data**

#### Protective equipment and precautions for firefighters

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 Use personal protective equipment. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

**Environmental Precautions** 

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for Clean-Up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled

containers.

## 7. Handling and Storage

## Precautions for safe handling

**Handling** Wear personal protective equipment. Do not breathe vapours or spray mist. Use only in

area provided with appropriate exhaust ventilation. Use product only in closed system.

#### Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Protect

from light. Keep in properly labelled containers.

incompatible materials Strong oxidizing agents. Acids.

## 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**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### 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. Goggles.

Skin protection

Respiratory protection

Wear protective gloves/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

Remarks/ • Method

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 and face before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing.

## 9. Physical and Chemical Properties

## Information on basic physical and chemical properties

Physical state solid

AppearanceYellowOdorSlight Rotten egg-like

**color** No information available

<u>Property</u> <u>VALUES</u>

pH No information available

Melting point/freezing point no data available

Melting point/freezing pointno data availableBoiling Point/RangeNo information available

Flash Point

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability limit in air

Upper Flammability Limit
Lower Flammability Limit
Vapor pressure
Vapor Density
Specific gravity
Water solubility
Solubility in Other Solvents
No information available

Autoignition temperature 205 C / 401 F

Decomposition temperature
Viscosity, kinematic
Dynamic viscosity
Explosive properties
Oxidizing properties

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

## OTHER INFORMATION

Softening pointNo information availablemolecular weightNo information availableVOC ContentNo information availableLiquid DensityNo information available

Bulk density 40-45 lb/cu ft

## 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.

#### Conditions to avoid

To avoid thermal decomposition, do not overheat. Keep away from children.

#### incompatible materials

Strong oxidizing agents. Acids.

## **Hazardous decomposition products**

Lead oxides. Hydrogen sulfide.

## 11. Toxicological Information

## Information on Likely Routes of Exposure

Product information Manzate Pro Stick :

Oral LD50 (rat) = >5,000 mg/kg Dermal LD50 (rabbit) = > 2,000 mg/kg Inhalation LC50 (rat) 4 hr = >5.4 mg/L

Mild to moderate eye irritant. Mild to slight skin irritant. Sensitizer .

**Inhalation** May cause irritation of respiratory tract.

**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**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				

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
STOT - Single Exposure
STOT - Repeated Exposure
Chronic toxicity
Not Available.
no data available.
Avoid repeated exposure.

Target organ effectsRespiratory System, EYES.Aspiration hazardNo information available.

#### Numerical Measures of Toxicity - Product information

**LD50 Oral** > 5,000 mg/kg (rat) **LD50 Dermal** > 2,000 mg/kg (rat)

**LC50** Inhalation LC50/inhalation/4h/rat = > 5.4 mg/l (rat) (4-hr)

## 12. Ecological Information

Marine Pollutant.

ecotoxicity

Mancozeb = Rainbow trout =0.73 mg/L 96 hr Fathead minnow 0.57 mg/L 96 hr Bluegill sunfish = 0.84 mg/L 96 hr Freshwater 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**

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**When shipped domestically by highway in non-bulk containers this product can be shipped

as not regulated.

UN/ID no. UN3077

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

Hazard class 9
Packing group PG III

**IMDG - Marine Pollutant** Marine Pollutant.

**TDG** When shipped in Canada domestic highway non-bulk this product can be shipped as Not

regulated as per TDG 1.45.1

**UN/ID no.** UN3077

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

Hazard class

Packing group PG III

Marine Pollutant: Y or N [List

Ingredient(s) with %]

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

**ICAO** 

**UN/ID no.** UN3077

Proper shipping name Environmentally hazardous substance, solid, n.o.s Mancozeb

Hazard class 9

Packing group PG II

**Description** IMDG - Marine Pollutant

IATA

**UN/ID no.** UN3077

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

Hazard class 9

Packing group PG III

**Description** IMDG - 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 This product contains a chemical which is listed as a marine pollutant according to

IMDG/IMO

## 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. Causes moderate eye irritation. May be harmful if inhaled or swallowed. 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** 

Component	RQ
Ethylene thiourea	10 lb
96-45-7 ( 0-0.1 )	

0

SARA Product RQ

**RCRA** 

- 1				
	Component	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
ı	Ethylene thiourea			U116
	96-45-7 ( 0-0.1 )			

#### **Pesticide Information**

## **State Regulations**

Component	CAS No	CATEGORY
Mancozeb 8018-01-7 ( 75 )	8018-01-7	Carcinogen
Ethylene thiourea 96-45-7 ( 0-0.1 )	96-45-7	Carcinogen
Component	California Prop. 65	Non-additive, corrosive chemical type
Mancozeb 8018-01-7 ( 75 )	Carcinogen	
Ethylene thiourea 96-45-7 ( 0-0.1 )	Carcinogen Developmental	

#### State Right-to-Know

Not applicable

International regulations

U.S. EPA Label information

EPA Pesticide registration number 28217\*\*\*

## 16. Other Information

NFPA HEALTH 2 flammability 1 Instability 0 Physical hazard -

Preparation Date20-May-2015Revision date06-Jan-2019

**Revision Summary** 

Update logo Update section 1 Update Section 16\*\*\*

#### **Disclaimer**

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**End of SDS**