



# Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 10-Jan-2017

Revision date 20-Nov-2018

Revision Number: 2

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

### Product identifier

Product Description: Dexter Max

### Other means of identification

Product code 12U-329  
UN-No UN3077  
Registration number(s) 70506-329

### Recommended use of the chemical and restrictions on use

Recommended use Fungicides.  
Uses advised against Activities contrary to label recommendation  
Non labeled activities

### Details of the Supplier of the Safety Data Sheet

#### Supplier Address

United Phosphorus 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)

Skin sensitization	Category 1
Reproductive Toxicity	Category 1B

### Label elements

#### EMERGENCY OVERVIEW

**DANGER**

#### **Hazard Statements**

May cause an allergic skin reaction  
May damage fertility or the unborn child



<b>Appearance</b> Granule	<b>Physical state</b> solid	<b>Odor</b> No characterisitic odor
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**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  
 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

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)****OTHER INFORMATION**

- May be harmful in contact with skin
- Very toxic to aquatic life

### 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Zinc manganese ethylenebis dithiocarbamate	8018-01-7	70
Ethylene thiourea	96-45-7	0-0.5
Manganese sulfide	18820-29-6	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**

<b>Eye contact</b>	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.
<b>Skin contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>Inhalation</b>	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.
<b>Ingestion</b>	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

**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** No information available.

**5. Fire-fighting measures****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** no data available.

**Specific hazards arising from the chemical**

No information available.

**Hazardous combustion products** Carbon disulfide, ethylene thiourea (ETU). If heated to decomposition (>235 F) flammable ethylene is produced.

**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**

Avoid dust formation. 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. Do not flush into surface water or sanitary sewer system.

**Methods and material for containment and cleaning up****Methods for Clean-Up**

Sweep up and shovel into suitable containers for disposal.

**7. Handling and Storage****Precautions for safe handling****Handling**

Avoid dust formation. Avoid breathing dust. Keep out of reach of children. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid dust formation in confined areas.

**Conditions for safe storage, including any incompatibilities****Storage**

Keep tightly closed in a dry and cool place. If allowed to become wet the product will deteriorate and represent a fire hazard.

**incompatible materials**

Strong acids. Strong oxidizing agents. Aquatic. quaternary ammonium salts.

**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**

Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact. If splashes are likely to occur, wear: Goggles.

**Skin protection**

Wear protective gloves/clothing. 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**

<b>Physical state</b>	solid	<b>Odor</b>	No characterisitic odor
<b>Appearance</b>	Granule		
<b>color</b>	Gray Yellow		

Property	VALUES	Remarks/ • Method
pH	7.02	
Melting point/freezing point	no data available	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability limit in air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
vapor pressure	No information available	
Vapor Density	No information available	
Specific gravity	0.7115 +/- 0.03 g/mL	
Water solubility	No information available	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	no data available	
Decomposition temperature	No information available	
Viscosity, kinematic	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

**OTHER INFORMATION**

Softening point	No information available
molecular weight	No information available
VOC Content	No information available
Liquid Density	No information available

**10. Stability and Reactivity**

Reactivity

no data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of hazardous reactions**

None under normal processing.

#### **Conditions to avoid**

Protect from water.

#### **incompatible materials**

Strong acids. Strong oxidizing agents. Aquatic. quaternary ammonium salts.

#### **Hazardous decomposition products**

Lead oxides.

## 11. Toxicological Information

### **Information on Likely Routes of Exposure**

<b>Product information</b>	Dexter Max: Acute Oral LD50 = >5,000 mg/kg Acute Dermal LD5 = >5,000 mg/kg Acute Inhalation LC50 = >5.218 mg/L (4hr)
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	Avoid contact with eyes. May cause slight irritation.
<b>Skin contact</b>	Avoid contact with skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
<b>Ingestion</b>	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** Azoxystrobin:  
 Reproductive/Developmental Effects = Weak chromosomal damage in mammalian cells with cytotoxic levels. Negative in whole animal assays for chromosomal and DNA damage @ high doses (>2,000 mg/kg).  
 In rats developmental effects were seen only at maternally toxic doses (100 mg/kg/day)  
 Carcinogenicity  
 No carcinogenicity effects observed in rats or mice at doses up to the maximum tolerated dose. The information below indicates whether any agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Ethylene thiourea 96-45-7	-	Group 3	Reasonably Anticipated	X

*IARC: (International Agency for Research on Cancer)*

*A trace contaminant, Ethylene thiourea (ETU) a breakdown product of Maneb, has been categorized as a probable human carcinogen by NTP.*

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

**Aspiration hazard** No information available.

**Numerical Measures of Toxicity - No information available**

**LD50 Oral** > 5,000 mg/kg  
**LD50 Dermal** > 5,000 mg/kg  
**LC50 Inhalation** > 20.84 mg/l ( 1 hr)

## 12. Ecological Information

Y.

**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

22.04% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**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**

Dispose of contents/container in accordance with local regulation. 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**

Do not reuse empty containers. 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 IMDG shipping description:

**UN-No**

UN3077

**Proper shipping name**

Environmentally hazardous substances, solid, n.o.s Mancozeb

**Hazard class**

9

**Packing group**

PG III

**Marine Pollutant**

Y.

**TDG**

When shipped in Canada domestic highway non-bulk this product can be shipped as Not regulated as per TDG 1.45.1

**UN-No**

UN3077

<b>Proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s. (Mancozeb)
<b>Hazard class</b>	9
<b>Packing group</b>	PG III
<b>Description</b>	Marine pollutant

**IATA**

<b>UN-No</b>	3077
<b>Proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s Mancozeb
<b>Hazard class</b>	9
<b>Packing group</b>	PG III
<b>Description</b>	Marine Pollutant

**IMDG/IMO**

<b>UN-No</b>	3077
<b>Proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s (Mancozeb)
<b>Hazard class</b>	9
<b>Packing group</b>	PG III
<b>Marine Pollutant</b>	This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

<b>15. Regulatory Information</b>
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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

**Keep out of Reach of Children. Prolonged or frequent repeated skin contact may cause allergic reaction in some individuals. Toxic to aquatic organisms.**

**International Inventories**

<b>USINV</b>	Not present
<b>DSL/NDSL</b>	Not present
<b>EINECS/ ELINCS</b>	Not Present
<b>ENCS</b>	Not Present
<b>China</b>	Not Present
<b>KECL</b>	Not Present
<b>PICCS</b>	Not Present
<b>AICS</b>	Not Present
<b>TSCA</b>	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**

Y

Acute health hazard yes  
 Chronic health hazard yes  
 Fire hazard No  
 Sudden release of pressure hazard No  
 Reactive Hazard No

**CERCLA**

Not applicable

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**

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

**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**

**State Regulations**

Component	CAS No	CATEGORY
Zinc manganese ethylenebis dithiocarbamate 8018-01-7 ( 70 )	8018-01-7	Carcinogen
Ethylene thiourea 96-45-7 ( 0-0.5 )	96-45-7	Carcinogen

**Prop 65 Pictogram**



**Prop 65 Warning Statement  
 California Proposition 65**

**WARNING!\*\*\***  
 This product can expose you to chemicals including those listed below, 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](http://www.P65Warnings.ca.gov)\*\*\*

Component	California Prop. 65	Non-additive, corrosive chemical type
Zinc manganese ethylenebis dithiocarbamate 8018-01-7 ( 70 )	Carcinogen	
Ethylene thiourea 96-45-7 ( 0-0.5 )	Carcinogen Developmental	

**State Right-to-Know**

Not applicable

**International regulations**

**U.S. EPA Label information**

EPA Pesticide registration number 70506-329

**16. Other Information**

**NFPA** HEALTH 2 flammability 0 Instability 0 Physical hazard -

Preparation Date 10-Jan-2017  
 Revision date 20-Nov-2018

Revision Summary  
 Add Prop 65 statement\*\*\*

**Disclaimer**



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**End of SDS**