# **Safety Data Sheet**



Preparation Date 10-Jan-2017 Revision date 04-Oct-2022 Revision Number: 5

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

Identification of the product

Product Description Dexter Max

Other means of identification

 Internal SDS code
 12U-329

 UN/ID no
 UN3077

 Registration number(s)
 70506-329

Recommended use of the chemical and restrictions on use

Recommended use Fungicides.

**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 and Drug Safety (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 2

#### Label elements

### **EMERGENCY OVERVIEW**

#### DANGER

#### Hazard Statements

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





### Appearance Granule Physical state solid Odor No characterisitic odor

#### **Precautionary Statements - Prevention**

**Precautionary Statements - Response** 

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

Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

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	8018-01-7	70
dithiocarbamate		
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**

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 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 poison control center or

doctor for further treatment advice.

**Ingestion** 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

no data available.

**Effects** 

#### 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**

Chemical name	ACGIH TLV	OSHA PEL
Zinc manganese ethylenebis dithiocarbamate		(vacated) Ceiling: 5 mg/m³
Manganese sulfide	TWA: 0.02 mg/m <sup>3</sup> Mn	(vacated) Ceiling: 5 mg/m <sup>3</sup>

respirable particulate matter	
TWA: 0.1 mg/m <sup>3</sup> Mn	
inhalable particulate matter	

**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** 

Skin protection Respiratory 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. Wear protective gloves/clothing. 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

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

# 9.1 Information on basic physical and chemical properties

Appearance Granule
Physical state solid

Odor No characterisitic odor

color Gray Yellow

<u>Property</u> <u>VALUES</u> <u>Remarks/ Method</u>

pH7.02None knownMelting point/freezing pointNone knownBoiling Point/RangeNone known

Flash Point No information available None known

Evaporation Rate None known

Flammability (solid, gas)

None known Not Available

**Specific gravity** 0.7115 +/- 0.03 g/mL None known **Bulk density** None known

Water solubility

Solubility

Dispersible in water

None known
None known
None known
None known
None known
None known

Partition coefficient: n-octanol/waterNone knownAutoignition temperatureNone knownDecomposition temperatureNone knownViscosityNone known

#### 9.2 OTHER INFORMATION

# 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

**Product information** Dexter Max:

Acute Oral LD50 = >5,000 mg/kg Acute Dermal LD5 = >5,000 mg/kg Acute Inhalation LC50 = >5.218 mg/L (4hr)

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

**Eye contact** Avoid contact with eyes. May cause slight irritation.

**Skin contact** Avoid contact with skin. Repeated or prolonged skin contact may cause allergic reactions

with susceptible persons.

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

SensitizationNo information available.Mutagenic effectsno data available.CarcinogenicityAzoxystrobin:

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 dosesa (100 mg/kg/day)

Cacinogenicity

No carcinogenicity effects observed in rats or mice at doses up to the maximum tolerarated dose. 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
Aspiration hazard
Not Available.
no data available.
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

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#### 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 components(s) of unknown hazards to the aquatic environment

# Persistence/Degradability

no data available.

#### **Bioaccumulation/ Accumulation**

No information available.

#### **Other Adverse Effects**

no data available

UN/ID no

# 13. Disposal Considerations

#### **Waste Treatment Methods**

Waste Disposal Method Dispose of contents/container in accordance with local regulation. Pesticide wastes can be

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:

UN3077

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

Hazard class 9
Packing group PG III
IMDG - 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/ID no UN3077

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

Hazard class 9
Packing group PG III

**Description** Marine pollutant

Revision date 04-Oct-2022

12U-329 Dexter Max

IATA

**UN/ID no** 3077

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 3077

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 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**

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
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**

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#### **CERCLA**

Not applicable

Chemical name	RQ	CERCLA EHS RQs	RQ

#### **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			U116
96-45-7 ( 0-0.5 )			

# **Pesticide Information**

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 ( 70 )			X	
Ethylene thiourea 96-45-7 ( 0-0.5 )			Х	

#### **State Regulations**

California Proposition 65 This product contains the following Proposition 65 chemicals:

California i reposition de l'inis product containe the following i reposition de chemicale.			
Component		California Prop. 65	
Zinc manganese ethylenebis dithiocarbamate		Carcinogen	
8018-01-7 ( 70 )			
Ethylene thiourea		Carcinogen	
96-45-7 ( 0-0.5 )		Developmental	
Chemical name	CAS N	lo CATEGORY	
Zinc manganese ethylenebis dithiocarbamate	8018-01	1-7 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

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethylene thiourea - 96-45-7	X	X	X	X	

# 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 Date10-Jan-2017Revision date04-Oct-2022

Revision Summary Update section 2 Disclaimer

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**End of SDS**