

# **Safety Data Sheet**

Preparation Date 12-Jan-2016 Revision date 03-Jan-2019 Revision Number: 4

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

Product identifier

Product Description: Wingman Fern 75WDG

Other means of identification

Product code 12-394E Registration number(s) 70506-269

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 - Oral	Category 1
Acute toxicity - Dermal	Category 1
Skin sensitization	Category 1
Reproductive Toxicity	Category 1B

# Label elements

#### **EMERGENCY OVERVIEW**

## DANGER

#### **Hazard Statements**

FATAL IF SWALLOWED
Fatal in contact with skin
May cause an allergic skin reaction
May damage fertility or the unborn child



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Appearance grey Yellow brown Physical state Free flowing Odor Slight Rotten egg-like microgranules

### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood Wear cold insulating gloves/face shield/eye protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product 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: Gently wash with plenty of soap and water
Immediately call a POISON CENTER or doctor/physician
Remove/Take off immediately all contaminated clothing
Wash contaminated clothing before reuse
If skin irritation or rash occurs: Get medical advice/attention
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth

# **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

- Causes mild skin irritation
- · Very toxic to aquatic life

# 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Zinc manganese ethylenebis	8018-01-7	75
dithiocarbamate		
Ethylene thiourea	96-45-7	0-0.5
Sodium diisopropyl napthalene sulfonate	1332-93-6	2.07

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4.	<b>First</b>	aid	measures
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#### **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. 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.

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unconscious person. Do n

unconscious person. Do not induce vomiting without medical advice.

Call a physician or poison control center immediately. Never give anything by mouth to an

Most Important Symptoms and Effects, Both Acute and Delayed

**Most Important Symptoms and** 

no data available.

**Effects** 

Ingestion

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 If heated to decomposition (>235 F) flammable ethylene is produced.

#### **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. Provide adequate ventilation.

**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 breathing dust. Keep out of reach of children. Avoid contact with skin, eyes and

clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

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. Keep containers tightly closed in a cool,

well-ventilated place.

incompatible materials Strong acids. Strong oxidizing agents. Aquatic. quaternary ammonium salts. EDBC

sequestering 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. 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.

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.

**Skin protection** Socks and footwear. Wear protective gloves/clothing.

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 Free flowing microgranules

Appearance grey Yellow brown Odor Slight Rotten egg-like

**color** No information available

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

pH 6.9 Melting point/freezing point 7.9 °C /

Melting point/freezing point
7.9 °C / 46 °F
Boiling Point/Range
No information available

Flash Point

Evaporation Rate

No information available

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 No information available Water solubility No information available Solubility in Other Solvents No information available Partition coefficient: n-octanol/waterNo information available Autoignition temperature 159 °C / 318 °F **Decomposition temperature** No information available

Decomposition temperatureNo information availableViscosity, kinematicNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

#### **OTHER INFORMATION**

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

Bulk density 0.63 g/ml

# 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. EDBC sequestering agents.

#### Hazardous decomposition products

Lead oxides.

# 11. Toxicological Information

# Information on Likely Routes of Exposure

**Product information** Mancozeb:

Acute oral LD50 (rat) = >5.0 g/kg Acute dermal LD50 (rabbit) = >2.0 g/kg Acute Inalation LC50 (rat) = >5.2 mg/L - 4 hr

**Inhalation** May be harmful if inhaled. May cause irritation of respiratory tract.

**Eye contact** Irritating to eyes.

**Skin contact** Irritating to 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** May cause sensitization by skin contact.

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.

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**Reproductive effects** May damage fertility or the unborn child.

STOT - Single Exposure no data available.
STOT - Repeated Exposure no data available.
Aspiration hazard no data available.
No information available.

#### Numerical Measures of Toxicity - Product information

**LD50 Oral** > 5 g/kg (rat) **LD50 Dermal** > 2 g/kg (rat)

LC50 Inhalation LC50/inhalation/4h/rat = > 5.2 mg/l (rat)

# 12. Ecological Information

#### 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. Dispose

of contents/container in accordance with local regulation.

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:

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

Marine Pollutant: Y or N [List Marine pollutant.

#### Ingredient(s) with %]

**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 IMDG - Marine Pollutant

# 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. May irritate eyes, nose, throat and skin. Harmful if swallowed. Harmful if inhaled or absorbed through skin. 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 ( 0-0.5 )	

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**

#### **State Regulations**

Component	CAS No	CATEGORY
Zinc manganese ethylenebis dithiocarbamate	8018-01-7	Carcinogen
8018-01-7 ( 75 )		
Ethylene thiourea	96-45-7	Carcinogen
96-45-7 ( 0-0.5 )		_

**Prop 65 Pictogram** 



Prop 65 Warning Statement California Proposition 65

WARNING!

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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

Component	California Prop. 65	Non-additive, corrosive chemical type
Zinc manganese ethylenebis dithiocarbamate 8018-01-7 ( 75 )	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 70506-269

#### 16. Other Information

NFPA HEALTH 2 flammability 0 Instability 0 Physical hazard -

Preparation Date 12-Jan-2016 Revision date 03-Jan-2019 Revision Summary

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

Disclaime

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**End of SDS** 

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