

## SAFETY DATA SHEET

Preparation Date May 22, 2024

Revision Date

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

#### Product identifier

Product Description:	ProZate 75 WDG Fungicide
Other means of identification	UN No UN3077
Synonyms	Not Available
EPA Reg. No (USA)	89333-1-71058

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

Recommended use	Fungicide.
Uses advised against	Use contrary to label directions

#### **Supplier of this Safety Data Sheet**

Integrated Agribusiness Professionals  
7108 N. Fresno St., Suite 150  
Fresno, CA 93720  
559-440-1980

**EMERGENCY PHONE NUMBER:** (INFOTRAC) 1-800-535-5053 or +1-352-323-3500 (collect)  
for international shipping papers  
**POISON CONTROL CENTER:** 1-800-222-1222

### 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
Skin sensitization	Category 1B
Reproductive Toxicity	Category 2

#### **Label elements**

##### **EMERGENCY OVERVIEW:**

ProZate 75 WDG Fungicide is a granular product that is not flammable, combustible, or explosive and has low acute oral and dermal toxicity. Mancozeb may cause sensitization in some individuals after prolonged or repeated exposure.

#### **WARNING**

##### **Hazard statements**

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



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

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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

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 medical advice is needed, have container and /or booklet label at hand.

**Precautionary Statements - Storage**

Store out of reach of children and domestic animals

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

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

- toxic to aquatic life

**3. Composition / information on ingredients**

Chemical Name	% w/w	CAS No.	Trade secret
Mancozeb	75%	8018--01-7	N
Lignosulfonate dispersants	12 - 17 %	8061-51-6	N
Ethylene thiourea	< 0.061%	96-45-7	N
Other Non-hazardous Inert Ingredients	< 10%		N

**4. FIRST AID MEASURES****IF SWALLOWED:**

- Call poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person

**IF INHALED:**

- 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.

**IF IN EYES:**

- Hold eye open and rinse slowly and gently with water or 15 to 20 minutes.
- Remove contact lenses, if present, after the first minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.
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**If medical advice is needed, have container and /or booklet label at hand.**

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## 5. FIRE FIGHTING MEASURES

**GENERAL HAZARD:** None; Fortuna WDG is not flammable, combustible or explosive.  
**FLAMMABILITY CLASSIFICATION (29 CFR 1910.1200):** Non-flammable solid.

**HAZARDOUS COMBUSTION PRODUCTS:** carbon disulfide, ethylene thiourea

**EXTINGUISHING MEDIA:** Any fire extinguishing media (water, foam, dry chemical, CO<sub>2</sub>) may be used on nearby fires.

## 6. ACCIDENTAL RELEASE MEASURES

### LAND SPILL:

**Large spill:** Dyke around spill as necessary. If wet, absorb product with a clay-based absorbent. Remove dry product, absorbent and contaminated soil for disposal in accordance with applicable local regulations.

**Small spill:** Remove contaminated soil and place in containers for disposal in accordance with applicable local regulations.

Avoid contamination of water bodies during cleanup and disposal. Personal protective equipment is **not** needed to cleanup land spills.

**SPILLAGE ONTO HARD SURFACES:** Limit area of spillage by barricading if necessary. Sweep up or vacuum, and place product into containers for disposal in accordance with applicable local regulations. Clean surface with water. [NOTE: Wood surfaces will not be harmed nor present a future hazard after rinsing and drying.]

**SPILLAGE INTO WATER:** Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the mancozeb value to a negligible level.

### IN ALL CASES

Wear protective equipment as needed (see section 8).

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children. Wear protective gloves/clothing and eye/face protection.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a cool, well-ventilated place.

**Incompatible materials** Strong oxidizing agents. Acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines: Nuisance dust. OSHA PEL TWA: 15 mg/m<sup>3</sup> total dust TWA: 5 mg/m<sup>3</sup> respirable fraction.

**ENGINEERING CONTROLS:** Enclosed Cockpits: Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)].

Mechanical Flagging Engineering Controls: Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

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**PERSONAL PROTECTION:****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** Wear protective gloves/clothing. Long sleeved clothing. Socks and footwear.

**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**

Physical State:	Solid (granular)
Appearance:	Greenish granules
Odor:	Musky / rotten egg
Bulk Density:	36 - 38 lb per cubic foot
Vapor Pressure (mm/Hg):	Negligible @ 20°C
Solubility in Water:	dispersible in water, negligible dissolution in water
Melting Point:	Not applicable
pH @ 20°C:	not soluble in water

**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY (Conditions to avoid):** Stable

**INCOMPATIBILITY:** Strong acids, strong oxidizing agents, water, quaternary ammonium salts, EBDC sequestering agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon disulfide, ethylene thiourea

**HAZARDOUS POLYMERIZATION:** Will not occur

**11. TOXICOLOGICAL INFORMATION**

The following information is available for the formulation:

INGESTION:	Oral LD <sub>50</sub> (rat)	>5000 mg/kg
DERMAL:	Dermal LD <sub>50</sub> (rat)	>2000 mg/kg
INHALATION:	Inhalation LC <sub>50</sub> (rat)	5.3 - 7.38 mg / L
SENSITIZATION:	Skin sensitization (guinea pig)	weak sensitizer
IRRITATION:	Primary eye irritation (rat) Primary skin irritation (rat)	slight reversible irritation
<p><b>CARCINOGENICITY:</b> ETU, a potential microcontaminant is considered to be a probable human carcinogen by EPA, IARC, and NTP. The State of California (Proposition 65) has listed mancozeb and ETU as carcinogenic.</p>		

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**12. ECOLOGICAL INFORMATION****ECOTOXICITY DATA**

**General:** Mancozeb is minimally toxic to mammals, birds, and aquatic organisms.

**Environmental fate:** Mancozeb has minimal solubility in water, is not expected to bioconcentrate in aquatic organisms, is rapidly degraded in soil (DT50 1 -20 days), and is slightly mobile in soil.

**13. DISPOSAL CONSIDERATIONS****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.

Regulated waste: The microcontaminant ethylene thiourea (ETU):

**RCRA U116**

**Basis for listing:** Included in waste streams K123, K124, K125, K126

**14. TRANSPORTATION 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:

**Marine Pollutant** This product contains a chemical which is listed as a marine pollutant according to DOT.

**ICAO**

<b>UN-No</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s Mancozeb
<b>Hazard class</b>	9
<b>Packing group</b>	3

**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>ERG Code</b>	9L

**IMDG/IMO**

<b>Proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s (Mancozeb)
<b>Hazard class</b>	9
<b>UN-No</b>	3077
<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

**PACKAGING**

General description	: Foil and plastic-lined paper bag or HDPE drum
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**15. REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS:** 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. Harmful if inhaled or absorbed through skin. Harmful if swallowed. May irritate eyes, nose, throat and skin.**

**International Inventories**

<b>USINV</b>	Not determined
<b>DSL/NDL</b>	Not determined
<b>EINECS/</b>	Does not comply
<b>ELINCS</b>	Does not comply
<b>ENCS</b>	Does not comply
<b>China</b>	Does not comply
<b>KECL</b>	Does not comply
<b>PICCS</b>	Does not comply
<b>AICS</b>	Does not comply
<b>TSCA</b>	Does not comply

**OSHA/Cal OSHA:** This MDS document meets the requirements of both OSHA (29 CFR 1910.1200 and Cal OSHA (Title 8 CCR 5194 (g)) hazard communication standards. Refer to Sections 2 and 8 for regulatory exposure limits.

**CHEMICAL INVENTORY LISTING:** Mancozeb appears on several chemical inventory lists (including the EPA TSCA inventory, Canadian DSL, European EINECS, Japanese MITI, Australian and Korean lists) under the CAS No. 8018-01-7

**SARA TITLE III DATA****Sections 311 & 312 Hazard Categories**

Immediate Health Hazard:	yes
Delayed Health Hazard:	yes
Fire Hazard:	No
Reactive Hazard:	No
Sudden Pressure Release Hazard:	No

**Section 302 Extremely Hazardous Substances:** None

**Section 313 Toxic Chemicals:**

Ethylene thiourea CAS 96-45-7 <0.1%  
 mancozeb CAS 8018-01-7 75%

**CERCLA/EHS Reportable Quantities (RQ):**

Ethylene thiourea CAS 96-45-7	<b>RQ</b> 10 lb	<b>Amount in product</b> <0.1%
mancozeb CAS 8018-01-7	<b>RQ</b> 5000 lb	<b>Amount in product</b> <75 %

**RCRA Category:** US EPA Hazardous Waste Number U114 (ethylenebisdithiocarbamic acid)

**STATE REGULATIONS:**

**CALIFORNIA (Proposition 65):** This product contains trace levels of a component known to the State of California to cause cancer, birth defects, or reproductive harm: ethylene thiourea (CAS 96-45-7). This product contains a substance known to the State of California to cause cancer, mancozeb (CAS 8018-01-7)

**STATE RIGHT-TO-KNOW, ethylene thiourea:** Massachusetts, New Jersey, Pennsylvania, Illinois

**16. OTHER INFORMATION****SDS Status:****Date of this Revision: May 22, 2024****Date of Previous Revision:****DISCLAIMER:**

This information is provided for the limited guidance to the user. While Integrated Agribusiness Professionals believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

**ABBREVIATIONS:**

a.i.	-	Active ingredient
ACGIH	-	American Conference of Governmental Industrial Hygienists
CERCLA	-	Comprehensive Environmental Response, Compensation, and Liability Act
EPA	-	Environmental Protection Agency
FIFRA	-	Federal Insecticide, Fungicide, and Rodenticide Act
IARC	-	International Agency for Research on Cancer
NTP	-	National Toxicology Program
SARA	-	Superfund Amendments and Reauthorization Act
TSCA	-	Toxic Substances Control Act
DOT	-	Department of Transportation
IMDG	-	International Maritime Dangerous Goods
IATA	-	International Air Transport Association

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