

1 Identification

· **Product identifier**

· **Trade name:** *Gavel® 75DF Fungicide*

EPA Registration No.: 10163-6414

· **CAS Number:**

*Active Ingredient: Mancozeb (66.7%), CAS:8018-01-7
Zoxamide (8.3%), CAS:156052-68-5*

· **Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use** *Agriculture*

· **Application of the substance / the mixture** *Agricultural fungicide*

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

*Gowan Company
P.O. Box 5569
Yuma, Arizona 85366-5569
(928) 783-8844*

· **Information department:** *sds@gowanco.com*

· **Emergency telephone number:**

*Chemtrec® Emergency Telephone 24 - Hours: (Spills, leak or fire) Inside U.S. & Canada: (800) 424-9300
Outside the U.S. & Canada: +011 (703) 527-3887*

For medical emergency (Prosar®): (888) 478-0798

2 Hazard(s) identification

· **Classification of the substance or mixture**



Skin Sens. 1B H317 May cause an allergic skin reaction.

Eye Irrit. 2B H320 Causes eye irritation.

Aquatic Acute 2 H401 Toxic to aquatic life.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word:** *Warning*

· **Hazard-determining components of labeling:**

*Mancozeb
zoxamide (ISO)*

· **Hazard statements**

*Causes eye irritation.
May cause an allergic skin reaction.
Toxic to aquatic life.*

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· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Hazard description:**

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 1

HAZARD INDEX:

4 Severe Hazard

3 Serious Hazard

2 Moderate Hazard

1 Slight Hazard

0 Minimal Hazard

· **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 1

HAZARD INDEX:

4 Severe Hazard

3 Serious Hazard

2 Moderate Hazard

1 Slight Hazard

0 Minimal Hazard

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable in US.

· **vPvB:** Not applicable in US.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

8018-01-7	Mancozeb	66.7%
<p style="text-align: center;"> Repr. 2, H361; Aquatic Acute 1, H400; Skin Sens. 1, H317 </p>		

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156052-68-5 zoxamide (ISO)

8.3%

⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317

4 First-aid measures

· Description of first aid measures

· General information:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact 1-888-478-0798 for emergency medical treatment information.

· After 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 poison control center or doctor for further treatment advice.

· After 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.

· After eye contact:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes.
- Call a poison control center or doctor for treatment advice.

· After swallowing:

- Call a 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 a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

· Information for doctor:

- Most important symptoms and effects, both acute and delayed Unknown
- Indication of any immediate medical attention and special treatment needed None

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Hydrogen chloride (HCl)

Nitrogen oxides (NO_x)

Sulphur dioxide (SO₂)

· Advice for firefighters

Fight fire from an upwind location. Consider in-house sheltering of bystanders present in the smoke shadow. In fire conditions, this product may smolder without the presence of open flame. These smoldering fires may be difficult to control. Use water spray to cool containers exposed to fire. Thoroughly wet all exposed material to prevent continued smoldering. Small amounts of water may appear to intensify the fire. Discontinue water spray if container integrity is lost. Under these conditions, carbon dioxide or foam may be a more effective fire control agent than water spray. Where conditions permit, consider ventilation and high temperature incineration of the involved product. Suspensions of Gavel 75DF dust in the air may ignite or explode. Contain firefighting water for future disposal. The presence of water and an external heat source (such as fire) may accelerate decomposition of this product, resulting in the generation of further heat and the formation of toxic, flammable gasses. The result of

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this process may be continuing outbreaks of smoldering product. Under post-fire conditions, all involved palletted material should be broken down and each bag inspected for evidence of damage from exposure to heat and/or water. Offending bags should be opened in a well-ventilated area, the contents placed in secure containers, slurred with water and held for proper disposal.

- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Since Gavel 75DF is vacuum-packed in watertight bags, it will be evident when the integrity of a bag has been breached (material in bag is no longer rock-hard). If the spill occurs out of doors, cover the spilled material with a moisture-proof material to prevent degradation of the spilled material. If the covered material is in direct sunlight, measures should be taken to protect it from solar heat, which may cause degradation to commence or accelerate.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Pick up mechanically.

For small spills, sweep up material from broken containers in a manner that does not form an air-borne dust, and store collected material in secure containers until safe disposal can be arranged. Do not vacuum up spilled material as the dust created may form an explosive mixture when combined with air. If the spilled material has become damp and cannot be used immediately, it should be slurred with water and then stored in suitable containers until proper disposal can be arranged. If the spilled material is dispersed in water, use enough absorbent material to contain the spill in the form of a slurry, then scoop up the collected material and store it in suitable containers until proper disposal can be arranged.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Do not handle this product near food, feed or water. Keep out of reach of children or animals. An air-borne dust of this material can create a dust explosion. To prevent dust explosions, employ electrical bonding and grounding procedures to control static electricity when handling this product. Avoid breathing spray mist, ingestion and contact with eyes, skin or clothing. Remove and wash contaminated clothing before reuse. Contaminated clothing should be washed separately from domestic laundry and air-dried. Once used for contaminated clothing, the washing machine should be operated through a complete cycle with hot water and soap only, prior to use for domestic laundry. Users should wash hands and face before eating, drinking, chewing gum, using tobacco or the toilet.

- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

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

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in a cool, dry, well-ventilated area.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- **Further information about storage conditions:**

None.

Store in a cool, well-ventilated area. Some degradation products of this material are combustible; avoid ignition sources. Store Gavel 75DF in original sealed containers in well-ventilated warehouses or in shaded, well-ventilated shelters. Store bagged material only on pallets, and allow for free ventilation below and on the sides of stored bags. Provide an access aisle for each two rows of stored material. Un-palletted bags

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should be stored in loose stacks no more than two meters high/long/wide, and allow for free ventilation below and on the sides of stacked bags. Do not allow this material to become wet or overheated in storage, as decomposition, impaired activity or fire may result. Decomposition produces a foul odor due to formation of toxic, flammable gasses. Since Gavel 75DF is vacuum-packed in watertightbags, it will be evident when the integrity of a bag has been breached (material in bag is no longer rock-hard). Remove offending bags or containers to an open area for disposal.

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

Use this product only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

- **Components with limit values that require monitoring at the workplace:**

8018-01-7 Mancozeb

WEEL	Long-term value: 1 mg/m ³
	DSEN

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

- **Breathing equipment:** Not required.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

- **Body protection:**

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Mixers and loaders, applicators, and other handlers must wear:

- Long-sleeved shirt
- Long pants
- Shoes and socks
- Chemical-resistant gloves made of any waterproof material

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

- | | |
|--------------------|-----------------|
| · Form: | Granulate |
| · Color: | Brown |
| · Odor: | Sulfur-like |
| · Odour threshold: | Not determined. |

· pH-value at 20 °C (68 °F):	6.5 - 7.5
------------------------------	-----------

· Change in condition

- | | |
|--------------------------------|---------------|
| · Melting point/Melting range: | Undetermined. |
| · Boiling point/Boiling range: | Undetermined. |

· Flash point:	Not applicable.
----------------	-----------------

· Flammability (solid, gaseous):	Not determined.
----------------------------------	-----------------

· Ignition temperature:

- | | |
|------------------------------|-----------------|
| · Decomposition temperature: | Not determined. |
|------------------------------|-----------------|

· Auto igniting:	Product is not self-igniting.
------------------	-------------------------------

· Danger of explosion:	Product does not present an explosion hazard.
------------------------	-----------------------------------------------

· Explosion limits:

- | | |
|----------|-----------------|
| · Lower: | Not determined. |
| · Upper: | Not determined. |

· Vapor pressure:	Not applicable.
-------------------	-----------------

· Density at 20 °C (68 °F):	6.5 - 7.5 g/cm ³ (54.243 - 62.58 lbs/gal)
-----------------------------	------------------------------------------------------

- | | |
|--------------------|-----------------|
| · Relative density | Not determined. |
| · Vapour density | Not applicable. |
| · Evaporation rate | Not applicable. |

· Solubility in / Miscibility with

- | | |
|----------|--------------|
| · Water: | Dispersible. |
|----------|--------------|

· Partition coefficient (n-octanol/water):	Not determined.
--------------------------------------------	-----------------

· Viscosity:

- | | |
|--------------|-----------------|
| · Dynamic: | Not applicable. |
| · Kinematic: | Not applicable. |

· Other information	No further relevant information available.
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10 Stability and reactivity

- **Reactivity**
 - **Chemical stability** Stable under normal conditions
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
Keep away from moisture, heat or open flame.
 - **Possibility of hazardous reactions** No dangerous reactions known.
 - **Conditions to avoid** Keep away from moisture, heat or open flame.
 - **Incompatible materials:**
Strong oxidizers
Strong acidic.
 - **Hazardous decomposition products:**
Carbon bisulphide
Hydrogen chloride (HCl)
Hydrogen sulfide

11 Toxicological information

- **Information on toxicological effects**
 - **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4 h	5.0 mg/l (rat)

- **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
- **Sensitization:**
Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals.
- **Other information (about experimental toxicology):**
Chronic effects:
In animals, the active ingredients have been reported to cause effects on the thyroid, liver, eye and nervous system.

Cancer:
Mancozeb has caused cancer in laboratory animals. Zoxamide did not cause cancer in laboratory animals.

Birth defects:
Mancozeb has caused birth defects in laboratory animals only at doses toxic to the mother. Zoxamide did not cause birth defects or any other fetal effects in laboratory animals.

Reproductive effects:
In animal studies, the active ingredients in this formulation did not interfere with reproduction.

Mutagenicity:
For mancozeb, in-vitro genetic toxicity studies were predominantly negative and animal genetic toxicity studies were negative. For zoxamide, in-vitro genetic toxicity studies were negative.

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· **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories**

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

None of the ingredients are listed.

· **NTP (National Toxicology Program)**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

* 12 Ecological information

· **Toxicity**

This pesticide is toxic to fish and aquatic organisms. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or disposing of wastes.

· **Aquatic toxicity:** *No further relevant information available.*

· **Persistence and degradability** *No further relevant information available.*

· **Behavior in environmental systems:**

· **Bioaccumulative potential** *No further relevant information available.*

· **Mobility in soil** *No further relevant information available.*

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment**

· **PBT:** *Not applicable.*

· **vPvB:** *Not applicable.*

· **Other adverse effects** *No further relevant information available.*

* 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

· **Uncleaned packagings:**

· **Recommendation:**

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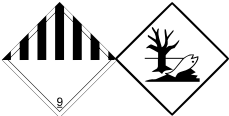
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Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Clean container promptly after emptying. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT · ADR, IMDG, IATA 	<p style="margin: 0;">Void</p> <p style="margin: 0;">UN3077</p>
<ul style="list-style-type: none"> · UN proper shipping name · ADR, IATA · IMDG 	<p style="margin: 0;"><i>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb, zoxamide (ISO))</i></p> <p style="margin: 0;"><i>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb, zoxamide (ISO)), MARINE POLLUTANT</i></p>
<ul style="list-style-type: none"> · Transport hazard class(es) · ADR, IMDG, IATA <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p style="margin: 0;"><i>9 Miscellaneous dangerous substances and articles</i></p> <p style="margin: 0;">9</p>
<ul style="list-style-type: none"> · Packing group · ADR, IMDG, IATA 	<p style="margin: 0;"><i>III</i></p>
<ul style="list-style-type: none"> · Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA): 	<p style="margin: 0;"><i>Product contains environmentally hazardous substances: Mancozeb, zoxamide (ISO)</i></p> <p style="margin: 0;"><i>Yes</i></p> <p style="margin: 0;"><i>Symbol (fish and tree)</i></p> <p style="margin: 0;"><i>Symbol (fish and tree)</i></p> <p style="margin: 0;"><i>Symbol (fish and tree)</i></p>
<ul style="list-style-type: none"> · Special precautions for user · Danger code (Kemler): · EMS Number: 	<p style="margin: 0;"><i>Warning: Miscellaneous dangerous substances and articles</i></p> <p style="margin: 0;"><i>90</i></p> <p style="margin: 0;"><i>F-A,S-F</i></p>
<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p style="margin: 0;"><i>Not applicable</i></p>
<ul style="list-style-type: none"> · Transport/Additional information: · Quantity limitations 	<p style="margin: 0;"><i>On passenger aircraft/rail: No limit</i></p> <p style="margin: 0;"><i>On cargo aircraft only: No limit</i></p>
<ul style="list-style-type: none"> · ADR · Excepted quantities (EQ) 	<p style="margin: 0;"><i>Code: E1</i></p> <p style="margin: 0;"><i>Maximum net quantity per inner packaging: 30 g</i></p> <p style="margin: 0;"><i>Maximum net quantity per outer packaging: 1000 g</i></p>

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· **IMDG**

- **Limited quantities (LQ)** 5 kg
- **Excepted quantities (EQ)** Code: E1
- Maximum net quantity per inner packaging: 30 g
- Maximum net quantity per outer packaging: 1000 g

· **UN "Model Regulation":**

US DOT:
NOT REGULATED

All others mode of transportation:
UN3077, Environmentally hazardous substances, solid, n.o.s.
(Mancozeb, zoxamide (ISO)), 9, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

EPA /FIFRA 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.

· **SARA Title III**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

8018-01-7 | Mancozeb

96-45-7 | ethylene thiourea

· **TSCA (Toxic Substances Control Act):**

8061-51-6 | Borresperse NA

· **Proposition 65**

· **Chemicals known to cause cancer:**

8018-01-7 | Mancozeb

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

8018-01-7 | Mancozeb

D, I, II

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

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- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**

N/A

- **Signal word:**

(US EPA) CAUTION

- **Hazard-determining components of labeling:**

Mancozeb
 zoxamide (ISO)

- **Hazard statements**

Causes eye irritation.
 May cause an allergic skin reaction.
 Toxic to aquatic life.

- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray
 Wear protective gloves.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 Specific treatment (see on this label).
 Wash contaminated clothing before reuse.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Supply Chain

- **Contact:** sds@gowanco.com

- **Date of preparation / last revision** 06/30/2015 / 8

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B
 Repr. 2: Reproductive toxicity, Hazard Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
 Aquatic Acute 2: Hazardous to the aquatic environment - AcuteHazard, Category 2

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- Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1*
- **Sources** Gavel® is a registered trademark used under license by Gowan Company, L.L.C.
 - * **Data compared to the previous version altered.**

US