

# Mazinga™ ADV Fungicide

Group 3 M5 Fungicide

PEEL BACK BOOK HERE

For Control and/or Suppression of the listed diseases in Peanuts and Soybeans.

**ACTIVE INGREDIENTS:**

Chlorothalonil: tetrachloroisophthalonitrile .....	27.69%
Tetraconazole: {1-[2(2,4-dichlorophenyl)-3-(1,1,2,2-tetrafluoroethoxy)propyl]-1H-1,2,4-triazole} .....	2.09%
OTHER INGREDIENTS: .....	70.22%
TOTAL: .....	100.00%

Contains 3 pounds Chlorothalonil per gallon.

Contains 0.23 pounds Tetraconazole per gallon.

## KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

### FIRST AID

<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

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

Emergency phone numbers (800) 424-9300 CHEMTREC (transportation and spills)  
(800) 222-1222 Poison Control Center

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Persons having a temporary allergic reaction respond to treatment with antihistamines or steroid creams and/or systemic steroids.

See additional Precautionary Statements and Directions for Use inside booklet.

NET CONTENTS: 2.5 Gallons (9.46 L)

Manufactured for:  
OXON ITALIA S.p.A.  
Via Sempione, 195 - 20016 PERO  
MILANO - ITALY

# 2.5G

EPA Registration No. 35915-18  
EPA Est. No. 70815-GA-001 (Lot No. begins with CB)  
EPA Est. No. 60063-GA-001 (Lot No. begins with VL)

**READ THE LABEL  
CAREFULLY BEFORE  
OPENING THE  
CONTAINER**

# PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Warning.** May be fatal if inhaled. Causes moderate eye irritation. Do not breathe spray mist. Remove and wash contaminated clothing before reuse. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### Personal Protective Equipment (PPE):

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

- Long-sleeved shirt and long pants,
- Shoes plus socks
- Protective Eyewear
- Chemical-resistant gloves made of waterproof material, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyethylene, polyvinyl chloride, or viton
- A non-powered, air purifying respirator equipped with an organic-vapor (OV) removing cartridge plus an R- or P- series filter, OR a non-powered air-purifying canister type respirator equipped with an organic vapor canister that uses an R- or P- series air-purifying filter

### User Safety Requirements:

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### Engineering Controls:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

## USER SAFETY RECOMMENDATIONS

### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates and wildlife. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

### Ground Water Advisory

Chlorothalonil, one of the active ingredients in this product, is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

### Surface Water Advisory

This product can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-laying tile drainage systems that drain to surface water.

Attention: This product contains a chemical known to the State of California to cause cancer.

## PHYSICAL HAZARDS

Do not mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the entire label before using this product.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the Agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouse, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instruction and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow workers to enter treated areas during the REI of 12 hours.

PPE required for early entry to treated areas is permitting under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water is:

- Coveralls,
- Chemical-resistant gloves,
- Shoes plus socks, and
- Protective eyewear.

(continued)

Special Eye Irritation Provisions: This product is a severe eye irritant. Although the restricted-entry interval expires after 12 hours, for the next 6 ½ days entry is permitted only when the following safety measures are provided:

- (1) At least one container designed specifically for flushing eyes must be available in operating condition at the WPS-required decontamination site intended for workers entering the treated area.
- (2) Workers must be informed, in a manner they can understand:
  - That residues in the treated area may be highly irritating to their eyes,
  - That they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes,
  - That if they do get residues in their eyes, they should immediately flush their eyes, they should immediately flush their eyes using the eyeflush container that is located at the decontamination site or using other readily available clean water, and
  - How to operate the eyeflush container.

### General Restrictions

This product must not be applied within 150 feet (for aerial and air-blast applications) or 25 feet (for ground applications) of marine/estuarine water bodies unless there is an untreated buffer area of that width between the area to be treated and the water body.

DO NOT apply this product in a way that will contact other persons, or pets, either directly or through drift.

DO NOT use on greenhouse grown crops.

### Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they must be observed.

The applicator should be familiar with and take into account the information covered in the [Aerial Drift Reduction Information](#).

### Aerial Drift Reduction Information

#### INFORMATION ON DROPLET SIZE

The most effective way to reduce drift potential is to apply larger droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly, or under unfavorable conditions (see the Wind, and the Temperature and Humidity sections).

#### CONTROLLING DROPLET SIZE

- Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles – Use the minimum number of nozzles that provide uniform coverage.
- Nozzle orientation – Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Nozzle type – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift potential.

#### BOOM LENGTH

For some use patterns, reducing the effective boom length to less than ¾ of the wingspan or rotor length may further reduce drive without reducing swath width.

#### WIND

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

#### TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

#### TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable direction due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can be identified by the movement of smoke from a ground source or in an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

### Fungicide Resistance Management

This product is a combination of systemic and contact fungicides that provides broad-spectrum control of many important peanut diseases. This product, with a multi-site mode of action, may be used to prevent or delay the development of disease resistance to single-site fungicides. Consult with your Extension Service representatives for guidance on proper use of this product in programs which attempt to minimize the occurrence of disease resistance to fungicides.

### **Mixing, Loading and Applying**

This product is intended to be diluted into water, then applied to crops by typical agricultural spraying techniques. Always apply this product in sufficient water to obtain thorough, uniform coverage of foliage and crop surfaces intended to be protected from disease. Spray volume to be used will vary with crop and amount of plant growth. Spray volume should normally range from 20 to 150 gallons per acre (200 to 1400 liters per hectare) for dilute sprays and 5 to 10 gallons per acre (50 to 100 liters per hectare) for concentrate ground sprays and aircraft applications. Both ground and aircraft methods of application are recommended unless specific directions are given for a crop.

Slowly invert container several times to assure uniform mixture. Measure the required amount of this product and pour into spray tank during filling. Keep agitator running when filling spray tank and during spray operations.

### **Applications through Sprinkler Irrigation Systems (Chemigation)**

Apply this product only through center pivot, motorized lateral move, traveling gun, solid set and portable (wheel move, side roll, end tow, or hand move) irrigation system(s). DO NOT apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

DO NOT apply this product through irrigation systems connected to a public water system. 'Public water system' means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year.

Controls for both irrigation water and pesticide injection systems must be functionally interlocked, so as to automatically terminate pesticide injection when the irrigation water pump motor stops. A person knowledgeable of the irrigation system and responsible for its operation shall be present so as to discontinue pesticide injection and make necessary adjustments, should the need arise.

The irrigation water pipeline must be fitted with a functional, automatic, quick-closing check valve to prevent the flow of treated irrigation water back toward the water source. The pipeline must also be fitted with a vacuum relief valve and low pressure drain, located between the irrigation water pump and the check valve, to prevent back-siphoning of treated irrigation water into the water source.

Always inject this product into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides into the intake line on the suction side of the pump.

Pesticide injection equipment must be fitted with a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump. Interlock this valve to the power system, so as to prevent fluid from being withdrawn from the chemical supply tank when the irrigation system is either automatically or manually turned off.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur. DO NOT apply when wind speed favors drift beyond the area intended for treatment.

Use this product through two basic types of sprinkler irrigation systems as outlined in Sections A and B below. Determine which type of system is in place, then refer to the appropriate directions provided for each type.

#### **A. Center Pivot, Motorized Lateral Move and Traveling Gun Irrigation Equipment**

For injection of pesticides, these continuously moving systems must use a metering pump, such as a positive displacement injection pump of either diaphragm or piston type, constructed of materials that are compatible with pesticides, fitted with a system interlock, and capable of injection at pressures approximately 2 to 3 times those encountered within the irrigation water line. Venturi applicator units cannot be used on these systems.

Fill chemical supply tank of injection equipment with water. Operate system for one complete revolution or run across the field, measuring time required, amount of water injected, and acreage covered. Thoroughly mix recommended amount of this product for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until this product has been cleared from last sprinkler head.

#### **B. Solid Set and Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Irrigation Equipment**

With stationary systems, an effectively designed in-line venturi applicator unit is preferred which is constructed of materials that are compatible with pesticides; however, a positive-displacement pump can also be used.

Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of this product for acreage to be covered with water so that the total mixture of this product plus water in the injection tank is equal to the quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. No agitation should be required. This product can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until this product has been cleared from last sprinkler head.

**Rotational Crop Restrictions**

Refer to the table below for the minimum time intervals required between the last application of this product and a new crop planting.

Crop	Rotational Interval (in days)
Corn	0
Grains, small (barley, buckwheat, millet, oats, rice, rye, triticale and wheat)	45
Grape	0
Peanut	0
Pecan	0
Soybean	0
Strawberry	0
Sugarbeet	0
Sugarcane	45
All other crops	120

**Application Rates**

Dosage rates on this label indicate pints of this product per acre, unless otherwise stated. Under conditions favoring disease development, the high rate specified and shortest application interval should be used.

For each listed crop, the maximum total amount of chlorothalonil active ingredient (lbs a.i./A) which may be applied per acre of that crop (or crop group) per year is listed. For each crop use situation listed below, the listed maximum individual and yearly application rates must not be exceeded and the listed minimum retreatment intervals must not be decreased.

**CROPS**

PEANUTS		
DISEASES CONTROLLED	RATE PER ACRE	APPLICATION DIRECTIONS
Early leaf spot <i>(Cercospora arachidicola)</i> Late leaf spot <i>(Cercosporidium personatum)</i> Web blotch <i>(Phoma arachidicola)</i> Rust <i>(Puccinia arachidicola)</i>	2 pints	Apply when conditions favor disease, generally when leaf wetness first occurs, or 30 to 40 days after planting. Repeat applications on a 14-day schedule if conditions remain favorable for disease. Delayed application timing (40 to 45 days): check with your local extension/forecasting systems to determine if an extended interval up to 21 days is suitable for your area. Apply by ground, air or chemigation. Do not apply more than 7 applications of this product per year. Do not apply within 14 days of harvest (digging). Do not allow livestock to graze in treated areas. Do not feed hay or threshings from treated field to livestock.
<b>RESTRICTIONS / LIMITATIONS:</b>		
<ul style="list-style-type: none"> <li>Maximum total amount of Chlorothalonil active ingredient (lbs. a.i./A) which may be applied from all products per acre per year: 9 lbs. a.i./A</li> <li>Maximum total amount of Tetraconazole active ingredient (lbs. a.i./A) which may be applied from all products per acre per year: 0.41 lbs. a.i./A</li> </ul>		

**SOYBEANS**

DISEASES CONTROLLED	RATE PER ACRE	APPLICATION DIRECTIONS
Asian Soybean Rust <i>(Phakopsora pachyrhizi)</i> Cercospora Blight <i>(Cercospora kikuchii)</i> Diaporthe Pod & Stem Blight <i>(Diaporthe phaseolorum)</i> Purple Seed Stain <i>(Cercospora kikuchii)</i> Frogeye Leaf Spot <i>(Cercospora sojina)</i> White Mold/Sclerotinia Stem Rot <i>(Sclerotinia sclerotiorum)</i> Powdery Mildew <i>(Microspheara diffusa)</i> Brown Spot <i>(Septoria glycines)</i> Anthracnose <i>(Colletotrichum spp.)</i> Stem Canker <i>(Diaporthe phaseolorum var. caulivora)</i>	2 pints	<p><b>Asian Soybean Rust:</b> Apply this product before disease development when rust infections are likely to occur. If necessary, make a second application no later than growth stage R-5.</p> <p><b>All Other Soybean Diseases:</b> Make preventative application from V5 (fifth trifoliate) to R5 (seed formation) soybean stages. Apply this product at soybean growth stage R-1 (early pod fill) or when conditions are favorable for disease development. Repeat the application 14 to 21 days after first application under heavy disease pressure.</p> <p>Use the higher rate and shorter spray intervals for severe disease conditions.</p>

**RESTRICTIONS / LIMITATIONS:**

- DO NOT apply more than 4.5 lb of chlorothalonil a.i. and 0.15 lb of tetraconazole a.i. per acre per year.
- DO NOT make more than two (2) applications per year.
- DO NOT graze or feed treated forage or hay to livestock.
- DO NOT apply after soybean growth stage R5 (beginning seed).
- DO NOT harvest immature soybeans for consumption once plants are treated.
- DO NOT use on vegetable soybean varieties grown for their immature pods.
- Apply this product by ground in a minimum 10 gallons per acre, by air in a minimum 2 gallons per acre (5 gallons per acre for white mold and Asian soybean rust) or by chemigation in sufficient water to obtain thorough coverage of soybeans.
- Use this product as part of an integrated pest management program (IPM).

**TANK MIX INFORMATION:**

Always read and follow all label directions when using any pesticide alone or in a tankmix. The most restrictive label language on the tank mix portion applies when tank mixing this product with another.

The following soybean pesticides can be used in a tank mixture with this product : Liberty<sup>®</sup>/LibertyLink<sup>®</sup>, Roundup<sup>®</sup>/Roundup Ready<sup>®</sup>, Targa<sup>®</sup>, Headline<sup>®</sup>, Quadris<sup>®</sup>, Asana<sup>®</sup>, Baythroid<sup>®</sup>, Justice<sup>®</sup>, Lorsban<sup>®</sup>, Mustang<sup>®</sup> Max, Orthen<sup>®</sup>, Pounce<sup>®</sup>, Proaxis<sup>®</sup>, and Warrior<sup>®</sup>.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry place and in such a manner as to prevent cross-contamination with other pesticides, fertilizers, food, and feed.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:**

Nonrefillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## WARRANTY AND LIMITATION OF DAMAGES

CONDITIONS OF SALE: To the extent consistent with applicable law, Oxon Italia S.p.A. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in accordance with the directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Oxon Italia S.p.A.. OXON ITALIA S.P.A. DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. To the extent consistent with applicable law, OXON ITALIA S.P.A. SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, AND OXON ITALIA S.P.A.'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER AND USER ACKNOWLEDGE AND ASSUME ALL RISKS AND LIABILITY RESULTING FROM HANDLING, STORAGE AND USE OF THIS PRODUCT. OXON ITALIA S.P.A. DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.

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