



## Material Safety Data Sheet

### SECTION 1. IDENTIFICATION

**Product Name:** Tebuconazole 3.6 Ag Fungicide  
**Chemical Name:** Tebuconazole,  $\alpha$ -[2-(4-chlorophenyl)ethyl]- $\alpha$ -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol (**active ingredient**)  
**EPA Registration No.:** 82542-31-84237  
**Recommended Use:** Fungicide  
**Manufacturer:** Solera ATO, LLC  
12230 E Del Norte  
Yuma, AZ 85367  
Customer Service (928) 503-1518

**FOR MEDICAL EMERGENCIES, CONTACT the National Poison Information Center 1-800-222-1222**  
**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300**

### SECTION 2. HAZARDS IDENTIFICATION

*NOTE: Please refer to Section 11 for detailed toxicological information.*

#### HAZARD CLASSIFICATION

Acute Oral Toxicity: Category 4; Acute Dermal Toxicity: Category 4; Acute Inhalation Toxicity: Category 3;

**SIGNAL WORD** Caution

#### HAZARD STATEMENTS

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or spray mist. This pesticide is toxic to mammals, fish and aquatic invertebrates.

#### PICTOGRAMS



### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Tebuconazole	107534-96-3	38.70
Glycerine	56-81-5	10.00
Surfactant blend		10.00

### SECTION 4. FIRST AID MEASURES

**General** When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

**Eye** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

**Skin** Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

**Ingestion** Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

**Inhalation** Move 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 physician or poison control center immediately.

**Notes to Physician**

**Treatment** There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

## SECTION 5. FIRE FIGHTING MEASURES

### Media

Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam, Water

### Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Evacuate personnel to safe areas. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition.

### Methods for Cleaning Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Collect and transfer the product into a properly labeled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. Contaminated soil may have to be removed and disposed.

### Additional Advice

Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact vegetation

## SECTION 7. HANDLING AND STORAGE

### Handling Procedures

Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

### Storing Procedures

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

### Work/Hygienic Procedures

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Ventilation

Control exposure levels through the use of general and local exhaust ventilation.

### Respiratory Protection

If necessary, under the conditions of use, wear a NIOSH-approved organic vapor respirator with particulate prefilter.

### Personal Protective Equipment (PPE)

<b>Eye Protection</b>	Use splash-proof goggles if needed to prevent liquid from getting into the eyes.
<b>Clothing Protection</b>	Laundry clothing after use. Wash thoroughly after handling.
<b>Skin Protection</b>	Wear long sleeves and trousers to prevent skin contact, and chemical resistant gloves such as nitrile or butyl rubber.

### Other Protective Measures

Clean water should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	off-white
<b>Physical State</b>	liquid suspension
<b>Odor</b>	chalk-like
<b>pH</b>	7.5 (100 %)

<b>Specific Gravity</b>	1.12 at 20 °C
<b>Melting / Freezing Point</b>	0 °C / 32 °F
<b>Water solubility</b>	miscible
<b>Viscosity</b>	800 - 1,200 mPa.s
<b>Hazardous Reactions</b>	Stable under normal conditions
<b>Flash point</b>	> 93.4 °C / 200.1 °F
<b>Autoignition Temperature</b>	405 °C / 761 °F

## SECTION 10. STABILITY AND REACTIVITY

<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight. Freezing
<b>Hazardous</b>	
<b>Decomposition Products</b>	Thermal decomposition can lead to release of: Nitrogen oxides (NO <sub>x</sub> ) Carbon monoxide Hydrogen cyanide (hydrocyanic acid) Hydrogen chloride (HCl)

## SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the technical-grade active ingredient, tebuconazole.

<b>Acute Oral Toxicity</b>	male rat: LD50: 3,776 mg/kg female rat: LD50: 3,710 mg/kg
<b>Acute Dermal Toxicity</b>	male/female combined rat: LD50: > 2,011 mg/kg
<b>Acute Inhalation Toxicity</b>	male/female combined rat: LC50: > 2.5 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration. No deaths male/female combined rat: LC50: > 10 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.
<b>Skin Irritation</b>	rabbit: Slight irritation.
<b>Eye Irritation</b>	rabbit: Minimally irritating.
<b>Sensitization</b>	guinea pig: Non-sensitizing.

### Chronic Toxicity

Tebuconazole caused liver, spleen, adrenal and/or eye effects at high doses in chronic studies in rats and dogs.

### Assessment Carcinogenicity

Tebuconazole is classified by EPA as a Group C carcinogen (possible human carcinogen) based on liver tumors in mice and no evidence of carcinogenicity in rats. As the liver tumors were seen only at a dose exceeding a Maximum Tolerated Dose (MTD), no significant carcinogenic risk is posed for human exposure.

<b>ACGIH</b>	None.
<b>NTP</b>	None.
<b>IARC</b>	None.
<b>OSHA</b>	None.

### Reproductive & Developmental Toxicity

**REPRODUCTION:** Tebuconazole is not considered a primary reproductive toxicant in rats. Reproductive effects (e.g., smaller litters) were observed at the highest concentration but were considered secondary to maternal toxicity.

**DEVELOPMENTAL TOXICITY:** Tebuconazole is not considered a primary developmental toxicant in laboratory animals. Developmental effects were observed only at doses that caused maternal toxicity.

### Neurotoxicity

Tebuconazole caused only transient neurobehavioral effects (e.g., decreased motor activity) in acute, subchronic and/or developmental neurotoxicity studies in rats.

### Mutagenicity

Tebuconazole was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

## SECTION 12. ECOLOGICAL INFORMATION

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 surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Apply this product as specified on the label.

## SECTION 13. DISPOSAL CONSIDERATIONS

### WASTE DISPOSAL

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

### DISPOSAL

Do not contaminate water, food or feed by storage. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use 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.

### CONTAINER DISPOSAL

Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

## SECTION 14. TRANSPORT INFORMATION

### DOT CLASSIFICATION:

Not regulated for Domestic Surface Shipment

### IMDG CLASSIFICATION:

UN3082, Environmentally Hazardous Substances Liquid, N.O.S. (Tebuconazole), 9, PG III, Marine Pollutant

### FREIGHT CLASSIFICATION:

Insecticides or Fungicides, N.O.I.; other than poison

## SECTION 15. REGULATORY INFORMATION

**TSCA list:** Glycerine, 56-81-5

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D):**

None.

**SARA Title III - Section 302 - Notification and Information:** None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting:** None.

### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients:** Glycerine, 56-81-5, IL, MN, RI

**Canadian Domestic Substance List:** Glycerine 56-81-5

**CERCLA:** None.

**Clean Water Section 307 Priority Pollutants:** None.

**Safe Drinking Water Act Maximum Contaminant Levels:** None.

**European Inventory of Existing Commercial Substances (EINECS):** Glycerine 56-81-5

## SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 1 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.

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