



TOLEDO 3.6F[®] Agricultural Fungicide

Safety Data Sheet

Revision date: March 20, 2015

Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : TOLEDO 3.6F[®] Agricultural Fungicide
CAS No. : NA – Mixture
EPA Registration Number : 83100-1-83979

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/preparation : Agriculture Fungicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Rotam North America, Inc.
4900 Koger Blvd. Suite# 140
Greensboro, NC 27407
Phone: 1-(866) 927-6826 (toll free); 1-(336) 346-8802
msds@rotam.com

1.4. Emergency telephone number

Emergency numbers : 1-800-858-7378 (NPIC)
1-800-222-1222 (Poison Control Center)
(800)-424-9300, (703)-527-3887 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

<u>Hazard Class</u>	<u>Category</u>	<u>Hazard Statement</u>
Reproductive Toxicity	2	H361d
Aquatic Toxicity (Chronic)	2	H411

If applicable, full text of H-phrases appear in "Label elements" below

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labeling

Hazard pictograms :



GHS08

GHS09

Signal word :

Warning

Hazard statements :

H361d - Suspected of damaging the unborn child
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (prevention) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and

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	understood
	P273 - Avoid release to the environment
	P281 - Use personal protective equipment as required
Precautionary statements (response)	: P308+P313 – IF exposed or concerned: Get medical advice/attention P391 – Collect spillage
Precautionary statements (storage)	: P405 - Store locked up
Precautionary statements (disposal)	: P501 – Dispose of contents/container in accordance with federal, state and local regulations.

2.3. Other hazards/labeling information

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

SECTION 3: Composition/information on ingredients

Name	Product identifier	%/wt.
Tebuconazole (1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol)	(CAS No.) 107534-96-3	38.7
Other Ingredients	N/A	61.3

SECTION 4: First aid measures

4.1. Description of first aid measures

IF INHALED	: 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 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 15-20 minutes. Call a poison control center or doctor for treatment advice if irritation develops or persists.
IF IN EYES	: 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 poison control center or doctor for treatment advice if irritation develops or persists.
IF SWALLOWED	: 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 by a poison control center or doctor. Do not give anything to an unconscious person
First-aid measures – general	: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. See Label for Additional Precautions and Directions for Use.
Notes to Physician	: The compound does not cause any definite symptoms that would be diagnostic. No specific antidote. Treat symptomatically.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water, dry chemical powder, foam, carbon dioxide (CO₂).

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Unsuitable extinguishing media : High volume water jet. (Water contamination risk from runoff)

5.2. Special hazards arising from the substance or mixture

Fire hazard : Negligible fire and explosion hazard. Non-flammable under normal conditions of use. Hazardous decomposition products may be released during prolonged heating like dense smoke, carbon monoxide and dioxide, nitrogen oxides (NOx), hydrogen cyanide and hydrogen chloride.

Explosion hazard : Product is not explosive.

Reactivity : The product is stable at normal handling and storage conditions.

5.3. Advice for firefighters

Precautionary measures fire : In the event of fire, wear self-contained breathing apparatus. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Wear appropriate personal protective equipment (PPE) : coveralls, gloves, boots. Absorb with non-combustible absorbent. Scoop solid spill into closed containers. Clean contaminated floors and objects thoroughly, observing environmental regulations. Prevent material from entering sewers, waterways, or low areas. Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

6.1.1. For non-emergency personnel

Protective equipment : Wear appropriate personal protective equipment (PPE) : coveralls, gloves, boots.

Emergency procedures : Avoid contact with spilled material. Do not allow product to enter streams, sewers or other waterways.

6.1.2. For emergency responders

Protective equipment : Wear appropriate personal protective equipment (PPE) : coveralls, gloves, boots.

6.2. Environmental precautions

This pesticide is toxic to estuarine and marine invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirement of a National Pollutant Discharge Elimination System (NPDES) permit and permitting authority has been notified in writing prior to the discharge. Do not discharge effluent containing the product to sewer system without previously notifying the local sewage treatment plant authority. For guidance contact your local state water board or regional office of the EPA.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with non-combustible absorbent. Scoop solid spill into closed containers. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Do not allow children or pets to enter the treated area until it has dried.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Personal protective equipment

Train employees in safe use of the product. Follow all label instructions. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

Applicators and other handlers must wear:

Long sleeved shirt and long pants; Chemical-resistant gloves (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber); Safety glasses or goggles; NIOSH/MSHA-approved dust mask should be used when mists/sprays are generated during handling; Shoes plus socks.

PPE required for early entry to treated areas that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls. Chemical-resistant gloves, (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils. Shoes plus socks

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Off-White
Odor : Characteristic weak odor
Odor threshold : No data available
pH : No data available
Relative evaporation rate (n-butyl acetate=1) : No data available

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Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: Not applicable
Auto ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapor pressure	: ~18 mmHg
Relative vapor density at 20 °C	: No data available
Relative density	: 1.12 @ 20 °C
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidizing
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable at normal handling and storage conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Excessive heat and flame.

10.5. Incompatible materials

Strong acids, strong bases and oxidizers.

10.6. Hazardous decomposition products

Thermal decomposition products include oxides of carbon and nitrogen, hydrogen cyanide and hydrogen chloride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

TOLEDO® Agricultural Fungicide	
Oral	LD ₅₀ > 5000 mg/kg
Dermal	LD ₅₀ > 5050 mg/kg

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Inhalation	LC ₅₀ > 5.13 mg/L
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

TOLEDO® Agricultural Fungicide (active ingredient)	
Fish - LC50(96h)	4.4 mg/L (<i>Oncorhynchus mykiss</i>)
Fish - Chronic 21 day NOEC (mg/L)	0.012 mg/L (<i>Oncorhynchus mykiss</i>)
EC50(48h) Daphnia	2.79 mg/L (<i>Daphnia magna</i>)
ErC50(72h) algae	1.96 mg/L (<i>Scenedemus subspicatus</i>)

This pesticide is toxic to estuarine and marine invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirement of a National Pollutant Discharge Elimination System (NPDES) permit and permitting authority has been notified in writing prior to the discharge. Do not discharge effluent containing the product to sewer system without previously notifying the local sewage treatment plant authority. For guidance contact your local state water board or regional office of the EPA

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste disposal : Pesticide wastes are toxic. 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 : **Non-refillable:** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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 or more times. Offer for recycling, or puncture and dispose of in a sanitary landfill, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

SECTION 14: Transport information

Ground transport

Not Regulated by US DOT
Not Regulated by Canadian TDG

IMDG / ICAO / IATA

14.1. UN number

UN-No. : 3082

14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Tebuconazole)

Transport document description : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole), 9, III

14.3. Transport hazard class/classes

Class : 9

Hazard labels : 9



14.4. Packing group

Packing group : III

14.5. Environmental hazards

Dangerous for the environment :



Marine Pollutant : Yes

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SECTION 15: Regulatory information

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. Following is the hazard information as required on the pesticide label:

Signal word	: CAUTION
Hazard statements	: Harmful if swallowed, inhaled or absorbed through skin.
Precautionary statements	: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or spray mist.

SARA 313 Regulated Chemical(s): None

Title III hazard classification:

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

Fire: No

Reactivity/Physical hazard: No

Pressure: No

Canadian Regulatory Information:

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR. WHMIS Classification: D2B – Toxic



SECTION 16: Other information

NFPA: Health: 1; Flammability: 0; Reactivity: 0; Specific:

HMIS: Health: 1; Flammability: 0; Physical Hazard: 0; PPE: E

US SDS-GHS

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