



# SAFETY DATA SHEET

## 1. Product Identification:

### Product Name: TEBUCON® T&O FUNGICIDE

**Manufacturer:** Repar Corporation  
**Telephone:** 202-223-1424  
**Address:** P.O. Box 4321  
**City, State, Zip:** Silver Spring, MD 20914  
**Emergency Phone:** 202-223-1424 (Monday-Friday, 10:00 a.m. – 6:00 p.m.)  
**24 Hour Emergency Phone (CHEMTREC):** 1-800-424-9300  
**U.S. EPA Registration No.:** 69361- 11  
**Product Use:** Fungicide

## 2. Health Hazard(s) Identification:

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Off-white clear liquid

**HEALTH HAZARDS:** CAUTION! Minimal eye irritant.

**PHYSICAL HAZARDS:** May release toxic fumes if burned.

**ENVIRONMENTAL HAZARDS:** Toxic to aquatic life.



## 3. Composition/Ingredient Information:

### Chemical Names:

Active Ingredient:	CAS Number	Percentage by Weight
α-[2-(4-chlorophenyl)ethyl]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol	107534-96-3	38.7%

### Common Name of Active Ingredient:

Tebuconazole	107534-96-3	38.7%
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### Other Ingredients:

Inert Ingredients	N/A	61.3%
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\*Inert ingredient identity is confidential business information

## 4. First Aid Measures:

### 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 the eye.
- Call a poison control center or doctor for treatment advice.

### If Swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Have a 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.

### 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 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 a doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Medical Emergency Assistance, call the National Pesticide Information Center 1-800-858-7378.

**NOTE TO PHYSICIAN:** No specific antidote. Treat symptomatically. The compound does not cause any definite symptoms that would be diagnostic. Contact with eyes may cause irritation.

## 5. Fire Fighting Measures:

**EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide, or water spray

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** Can burn in fire, releasing toxic gases from thermal decomposition and combustion

**SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS:** Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Dike and collect water used to fight fire to prevent environmental damage due to runoff.

## 6. Accidental Release Measures:

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

**PERSONAL PRECAUTIONS:** Follow protective measures indicated in Section 8: Exposure Control/Personal Protection for both emergency personnel. Keep unnecessary and unprotected personnel from entering.

**ENVIRONMENTAL PRECAUTIONS:** Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

### METHODS FOR CLEANING UP:

**SMALL SPILL:** Absorb small spills with sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

**LARGE SPILL:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

## 7. Handling and Storage:

### HANDLING AND STORAGE PRECAUTIONS:

**HANDLING:** Use only in well ventilated area. Avoid contact with acidic and oxidizing materials through handling. Handle and open container in a manner to prevent spillage. If container is leaking, invert to prevent leakage. If leakage or spill has occurred refer to Section 6 of this document.

**STORAGE:** 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 reach of children, preferably in a locked storage area and away from acidic and oxidizing materials. Store above 28°F or agitate before use.

## 8. Exposure Control/Personal Protection:

**EXPOSURE GUIDELINES:** Occupational exposure limit (OEL) and biological limit values (BLV) for Tebuconazole – CAS No.: 107534-96-3 not established, control banding approach not available.

**APPROPRIATE ENGINEERING CONTROLS:** Use sufficient ventilation to avoid buildup of vapors.

**WORK/HYGIENE PRACTICES:** Emergency shower and eyewash facilities should be in close proximity (ANSI Z358.1). Launder contaminated clothing and wash hands and face after use. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

The following personal protective equipment should be used in conjunction with exposure control measures:

**EYE/FACE PROTECTION:** Safety glasses or goggles

**SKIN PROTECTION:** Long sleeve shirt, long pants and shoes plus socks

**RESPIRATORY PROTECTION:** None

**HAND PROTECTION:** Chemical-resistant gloves, such as barrier laminate, or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or Viton.

## 9. Physical & Chemical Properties:

<b>APPEARANCE:</b>	Off white clear liquid
<b>ODOR:</b>	Slight odor
<b>ODOR THRESHOLD:</b>	ND
<b>pH:</b>	6-7
<b>MELTING POINT:</b>	NA
<b>BOILING POINT:</b>	NA
<b>FLASH POINT:</b>	ND
<b>EVAPORATION RATE:</b>	ND
<b>FLAMMABILITY (solid, gas):</b>	Not flammable
<b>LOWER FLAMMABILITY LIMIT:</b>	ND
<b>UPPER FLAMMABILITY LIMIT:</b>	ND

VAPOR PRESSURE	NA
VAPOR DENSITY:	ND
RELATIVE DENSITY (H <sub>2</sub> O = 1):	1.1 @ 77°F (25°C)
SOLUBILITY:	Readily soluble in water
PARTITION COEFFICIENT (n-octanol/water):	NA
AUTO-IGNITION TEMPERATURE:	ND
DECOMPOSITION TEMPERATURE:	ND
VISCOSITY:	500 pbs @ 77°F (25°C)

## 10. Stability & Reactivity:

**REACTIVITY:** May decompose if heated

**STABILITY:** Product is stable under normal storage conditions.

**HAZARDOUS REACTIONS:** Product will not undergo polymerization.

**CONDITIONS TO AVOID:** Avoid direct sunlight and temperatures above 115°F (46°C) and below 25°F (-6°C).

**INCOMPATIBLE MATERIALS:** Acidic and oxidizing materials

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride, oxides of nitrogen, oxides of carbon

## 11. Toxicological Information:

### Toxicological Data for Tebucon<sup>®</sup> T&O Fungicide:

Oral LD <sub>50</sub> (m/f rat):	3,776/3,710 mg/kg bw
Dermal LD <sub>50</sub> (rat):	>2,011 mg/kg bw
Inhalation LC <sub>50</sub> (rat):	>2.5 mg/L
Skin irritation (rabbit):	Slight irritation
Skin sensitization (guinea pig):	Non-sensitizer
Eye irritation (rabbit):	Minimally irritating
Specific target organ toxicity (STOT):	
STOT-single exposure:	ND
STOT-repeated exposure:	ND
Aspiration hazard:	ND

### ROUTES OF EXPOSURE:

**INHALATION:** Harmful if inhaled. Avoid inhalation of vapor or mist.

**SKIN:** Slightly irritating to the skin.

**EYE CONTACT:** Minimally irritating to the eyes.

**INGESTION:** Harmful if swallowed.

**ADVERSE EFFECTS AND SYMPTOMS:** ND

**DELAYED OR IMMEDIATE EFFECTS FROM SHORT OR LONG TERM EXPOSURE:** ND

**NUMERICAL MEASURES OF TOXICITY:** ND

**INTERACTIVE EFFECTS:** ND

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known

### Toxicological Data for Tebuconazole Technical:

Mutagenicity:	Not mutagenic
Carcinogenicity:	Increased incidence of tumors in mice, not considered to be relevant to man
Reproductive Toxicity:	Not primary reproductive toxicant
Developmental Toxicity:	Not a primary developmental toxicant

## 12. Ecological Information:

### Ecological Data for Tebuconazole Technical:

96h LC <sub>50</sub>	Rainbow Trout	19.9 ppm
48h EC <sub>50</sub>	Daphnia Magna	31.0 ppm
96h EC <sub>50</sub>	Pseudokirchneriella subcapitata	15.2 ppm
LD <sub>50</sub>	Japanese quail	>2,000 mg/kg

**PERSISTENCE AND DEGRADABILITY:** Readily biodegradable

**BIOACCUMULATIVE POTENTIAL:** Does not bioaccumulate.

**MOBILITY IN SOIL:** Low potential for leaching into groundwater or moving deeper into soil layers

## 13. Disposal Considerations:

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

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. 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 of the nearest EPA Regional Office for guidance. Do not dispose of in any indoor or outdoor drain.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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.

## 14. Transport Information:

**SHIPPING DESCRIPTION:** Not regulated by USDOT (Ground transport)

**DOT HAZARD CLASS:** N/A

**IDENTIFICATION NUMBER:** N/A

**DOT PACKING GROUP:** N/A

## 15. Regulatory Information:

This chemical is a pesticide product registered with the U.S. 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:

### CAUTION

Harmful if swallowed, inhaled or absorbed through the skin.

## 16. Other Information:

HMIS HAZARD RATING	HEALTH	2
	FLAMMABILITY	0
	PHYSICAL HAZARD	1
	4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

**REVISED DATE:** August 31, 2016

**REFERENCE:** Revised for GHS compliance

**Tebucon<sup>®</sup> is a registered trademark of Repar Corporation.**