



# SAFETY DATA SHEET

## 1. Product Identification:

**Product Name: TEBUCON<sup>®</sup> 45 DF 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.:** 69361-18  
**Product Use:** Fungicide

## 2. Health Hazard(s) Identification:

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

Off white powder



**HEALTH HAZARDS:** WARNING! Mild eye irritant

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

**ENVIRONMENTAL HAZARDS:** Tebuconazole is toxic to aquatic organisms.

## 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	45.0%
<b>Common Name of Active Ingredient:</b> Tebuconazole	107534-96-3	45.0%

### Other Ingredients:

Inert Ingredients	N/A	55.0%
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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 poison control center or doctor for treatment advice.

### If Swallowed:

- Call 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 a 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:** Water spray, carbon dioxide, dry chemical, foam

**SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:** This product, when mixed with air in critical proportions and in the presence of an ignition source, may present an explosion hazard.

**SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS:** 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.

## 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 emergency personnel. Isolate hazard area, keep unauthorized people away. Avoid contact with skin by spilled product or contaminated surfaces

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

**METHODS FOR CLEANING UP:** Avoid creating a dust cloud. Sweep up spilled material. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

## 7. Handling and Storage:

### HANDLING AND STORAGE PRECAUTIONS:

**HANDLING:** Use only in area provided with appropriate exhaust ventilation. Handle and open container in a manner as to prevent spillage. Prevent contact with moisture through handling. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using toilet.

**STORAGE:** Store in a cool, dry, secure 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 locked storage area.

## 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:** Avoid dusting, sufficient ventilation to avoid buildup of dust.

**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:** Use goggles or face shield.

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

**RESPIRATORY PROTECTION:** NIOSH/MSHA approved respirator, following manufacturer's recommendations, should be used as a precautionary measure where airborne contaminants may occur. (OSHA Standard 29 CFR 1910.134).

**HAND PROTECTION:** Chemical resistant gloves made of waterproof material.

## 9. Physical & Chemical Properties:

<b>APPEARANCE:</b>	Off white powder
<b>ODOR:</b>	No recognizable/identifiable odor
<b>ODOR THRESHOLD:</b>	ND
<b>pH:</b>	6-8
<b>MELTING POINT:</b>	NA
<b>BOILING POINT:</b>	NA
<b>FLASH POINT:</b>	NA
<b>EVAPORATION RATE:</b>	ND
<b>FLAMMABILITY (solid, gas):</b>	not flammable
<b>LOWER FLAMMABILITY LIMIT:</b>	ND
<b>UPPER FLAMMABILITY LIMIT:</b>	ND
<b>VAPOR PRESSURE:</b>	NA

VAPOR DENSITY:	ND
RELATIVE DENSITY (H <sub>2</sub> O = 1):	ND
BULK DENSITY:	35-37 lb/cu. ft @ 77°F (25°C)
SOLUBILITY:	Readily soluble in water
PARTITION COEFFICIENT (n-octanol/water):	NA
AUTO-IGNITION TEMPERATURE:	NA
DECOMPOSITION TEMPERATURE:	ND
VISCOSITY:	NA

## 10. Stability & Reactivity:

**REACTIVITY:** May decompose if heated  
**STABILITY:** Product is stable under normal storage conditions.  
**HAZARDOUS REACTIONS:** Thermal decomposition  
**CONDITIONS TO AVOID:** Exposure to moisture, exposure to extreme heat  
**INCOMPATIBLE MATERIALS:** ND  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide, and nitrogen oxides.

## 11. Toxicological Information:

### Toxicology Data for Tebucon<sup>®</sup> 45DF Fungicide

Oral LD <sub>50</sub> (rat):	>2,000 mg/kg bw
Dermal LD <sub>50</sub> (rabbit):	>2,000 mg/kg bw
Inhalation 4hr LC <sub>50</sub> (rat):	>2.01 mg/L
Skin irritation (rabbit):	Non irritating
Skin sensitization (guinea pig):	Non sensitizing
Eye irritation (rabbit):	Mild eye irritation
Specific target organ toxicity (STOT):	
STOT-single exposure:	ND
STOT-repeated exposure:	ND
Aspiration hazard:	ND

#### ROUTES OF EXPOSURE:

**INHALATION:** Harmful if inhaled. Avoid breathing dust or spray mist.  
**SKIN:** May be harmful if absorbed through the skin.  
**EYE CONTACT:** Causes substantial but temporary eye injury  
**INGESTION:** Harmful if swallowed. Do not take internally  
**ADVERSE EFFECTS AND SYMPTOMS:** ND  
**DELAYED OR IMMEDIATE EFFECTS FROM SHORT OR LONG TERM EXPOSURE:** ND  
**NUMERICAL MEASURES OF TOXICITY:** ND  
**INTERACTIVE EFFECTS:** ND

### Toxicology Data for Tebuconazole Technical:

Mutagenicity:	Not mutagenic
Carcinogenicity:	Not carcinogenic
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
96h LC <sub>50</sub>	Bluegill sunfish	5.7 ppm
Oral LD <sub>50</sub>	Bobwhite quail	1,988 mg/kg
EC <sub>50</sub>	Activated sludge micro-organism	>10,000mg/L

**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 disposal facility. Do not dispose of down any indoor or outdoor drain.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state or 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:

#### WARNING

Causes substantial but temporary eye injury. 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 Repair Corporation.**