

REPAR CORPORATION
MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:
REPAR CORPORATION
Silver Spring, MD 20914

EMERGENCY TELEPHONE NUMBERS:
(800) 424-9300 (CHEMTREC, transportation and spills)

PRODUCT NAME : **TEBUCON 2.9 EW**
CHEMICAL NAME : Tebuconazole:
 α -[2-(4-chlorophenyl)ethyl]- α -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol

CHEMICAL FAMILY : Triazole fungicide
PRODUCT CODE : EPA Reg. No. 69361-

SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Tebuconazole	107534-96-3	2.700	3.100
1,2-Propylene glycol	57-55-6	9.500	10.500

SECTION 3 – HAZARDS IDENTIFICATION SUMMARY

Note: Please refer to Section 11 for detailed toxicological information

Emergency Overview Caution! Hazards to humans and domestic animals. Harmful if swallowed, inhaled or absorbed through the skin. Wash thoroughly with soap and water after handling. Avoid contact with skin, eyes and clothing. Remove contaminated clothing. Avoid breathing vapors and spray mist.

Physical State Low viscosity liquid

Route of Exposure Ingestion . Skin contact. Inhalation

Immediate Effects

General Do not allow children and pets to enter the treated area until it has dried

Eye Avoid contact with eyes or clothing.

Skin Harmful if absorbed through the skin

Ingestion Harmful if swallowed.

Inhalation Harmful if inhaled. Avoid breathing vapors and mists.

SECTION 4 – FIRST AID MEASURES

Skin Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Ingestion	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 do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
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 doctor for further treatment advice.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point	> 93.3°C/>199.9 °F Method: Setafalsh Closed Cup
Suitable Extinguishing Media	Dry chemical, Foam
Fire Fighting	Keep out of smoke. Contain runoff.

Instructions

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General and Disposal	Use proper protective equipment to minimize personal exposure (see Section 8). Absorb with vermiculite or other inert absorbent. Collect and contain contaminated absorbent and dike material for disposal.
Land Spill or Leaks	Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

SECTION 7 - HANDLING AND STORAGE

Handling Procedures	Read label carefully before use. Use the recommended equipment when handling this product (see Section 8).
Storing Procedures	Store in original container and out of the reach of children, preferably in a locked storage area. Store in a cool, dry area. Protect product from freezing temperatures.
Work/Hygienic Procedures	Handling Procedures Read label carefully before use. Use the recommended equipment when handling this product (see Section 8).
Storing Procedures	Store in original container and out of the reach of children, preferably in a locked storage area. Store in a cool, dry area. Protect product from freezing temperatures.
Work/Hygienic Procedures	Avoid contact with skin, eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye/Face Protection	Eye contact should be prevented through use of chemical safety glasses
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with side shields or splash proof goggles.

Hand Protection	Wear rubber gloves.
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.
Respiratory Protection	Ensure adequate ventilation.
General Protection	Follow all label instructions.

Exposure Limits

1,2-Propylene glycol	57-55-6	WEEL	TWA	50 ppm.
		Form of Exposure	Total vapor and aerosol	
		WEEL	TWA	10mg/m3
		Form of Exposure	Aerosol	
		ACGIH	TWA	3 mg/m3
		Form of Exposure	Respirable	
		US CAL OEL	TWA PEL	5 mg/m3
		Form of Exposure	Respirable fraction	
		US CAL OEL	TWA PEL	10 mg/m3
		Form of Exposure	Total dust	
		US CAL OEL	TWA PEL	5 mg/m3
		Form of Exposure	Respirable fraction.	
		US CAL OEL	TWA PEL	5 mg/m3
		Form of Exposure	Respirable fraction.	
		US CAL OEL	TWA PEL	10 mg/m3
		Form of Exposure	Total dust.	
		US CAL OEL	TWA PEL	10 mg/m3
		Form of Exposure	Total dust.	
		ACGIH	TWA	10 mg/m3
		Form of Exposure	Inhalable particulate	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Off-white viscous liquid

ODOR: No appreciable odor

MOLECULAR WEIGHT (technical): 307.8

BOILING POINT: > 210°F

SPECIFIC GRAVITY: 1.1 g/ml (9.2 lb/gal) @ 25°C (77°F)

pH: 6.7

VAPOR PRESSURE (technical): 9.8 x 10⁻⁹ mm Hg

WATER SOLUBILITY: Dispersible

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable, however may decompose if heated.

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

INCOMPATIBILITY WITH OTHER MATERIALS: Acidic and oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, Oxides of nitrogen

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral LD₅₀ (rat) - > 2,000 mg/Kg

Dermal LD ₅₀ (rat)	-	> 2,000 mg/Kg
Inhalation LC ₅₀ (rat)	-	> 0.5 mg/L (highest dose tested)
Eye Irritation (rabbit)	-	Moderate
Skin Irritation (rabbit)	-	Mild
Sensitization (guinea pig)	-	Non-sensitizer

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

CARCINOGEN STATUS:

OSHA – No

NTP – No

IARC – No

MUTAGENIC DATA: Preponderance of evidence indicates that tebuconazole is non-mutagenic.

SECTION 12 – ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This pesticide is toxic to estuarine and marine invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

FISH TOXICITY: (technical)

96 hour LC₅₀, Rainbow trout - 4.4 ppm

96 hour LC₅₀, Bluegill - 5.7 ppm

AVIAN TOXICITY: (technical)

Oral LD₅₀, Bobwhite quail - 1,900 mg/Kg

Oral LD₅₀, Mallard duck - unknown

BEE TOXICITY: (technical) Non-toxic

SECTION 13 - DISPOSAL CONSIDERATIONS

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

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 14 – TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION: Not regulated by DOT

DOT HAZARD CLASS: N/A

UN NUMBER: N/A

DOT PACKING GROUP: N/A

DOT PRIMARY/SECONDARY LABEL: N/A

DOT PRIMARY/SECONDARY PLACARD: N/A

DOT EMERGENCY RESPONSE GUIDE #: N/A

SECTION 15 – REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY: Not listed

SARA TITLE III STATUS:
311/312 Hazard Categories- Immediate and Delayed Health
313 Toxic Chemicals - None known

CALIFORNIA PROP 65: Not listed

SECTION 16 – OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Repar's knowledge. Repar Corporation makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

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