

Tebuconazole

This document provides a brief description of Tebuconazole, its uses, and the potential hazards associated with short and long term exposure. Environmental impact information for accidental releases is included. This information is general in nature and is not intended as a replacement for the safety data sheet (SDS), product label, and other safe handling literature. For additional information consult the respective LANXESS Corporation safety data sheet.

Identification

Chemical Name:	Tebuconazole
Synonym(s):	1-(4-Chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol 1H-1,2,4-Triazole-1-ethanol, α -[2-(4-chlorophenyl)ethyl]- α -(1,1-dimethylethyl)- 1H-1,2,4-Triazole-1-ethanol, α -[2-(4-chlorophenyl)ethyl]- α -(1,1-dimethylethyl)-, (+-)-
CAS Number:	107534-96-3
LANXESS Products Containing Tebuconazole:	<i>For a list of materials containing Tebuconazole, please contact your LANXESS Corporation sales representative.</i>

Description

Overview:	Tebuconazole is a colorless to light yellow solid, at ambient temperatures, possessing a slight characteristic odor.								
Uses:	Tebuconazole is the “active” ingredient in several Environmental Protection Agency (EPA) Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) registered LANXESS products. These EPA registered products may be used in wood based composite products, plastics, glues and adhesives, and sealants.								
Properties:	<table><tr><td>Solubility in Water:</td><td>Insoluble</td></tr><tr><td>Melting Point:</td><td>105°C (221°F)</td></tr><tr><td>Flash Point:</td><td>>185°C (>365°F) Closed Cup</td></tr><tr><td>Ignition Temperature:</td><td>468°C (874.4°F)</td></tr></table>	Solubility in Water:	Insoluble	Melting Point:	105°C (221°F)	Flash Point:	>185°C (>365°F) Closed Cup	Ignition Temperature:	468°C (874.4°F)
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Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture and in unloading, storage, staging and transfer operations at facilities using Tebuconazole as an additive. A much lower potential for exposure exists in facilities using the product in closed manufacturing processes by trained personnel.

Employee Training

Workers handling Tebuconazole should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. Process enclosures, local exhaust ventilation or other engineering controls should be used to keep workers exposure to airborne Tebuconazole below any recommended or statutory limits. For unknown Tebuconazole concentrations, use a NIOSH approved positive pressure air-supplied respirator. When exposure limits may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus. It is recommended that workers wear tightly fitted safety glasses with side shields and impervious, chemical-resistant nitrile rubber gloves be worn when handling Tebuconazole and products containing this chemical.

Consumer Exposure

LANXESS Corporation does not sell Tebuconazole, nor materials containing the component, to the general public. The general population may only be exposed to Tebuconazole through dermal contact with materials containing the substance.

Short-Term Health Effects

Tebuconazole is harmful if swallowed with symptoms of abdominal pain, nausea, vomiting, and diarrhea.

Long-Term Health Effects

With repeated or prolonged exposure, Tebuconazole is suspected of damaging the unborn child.

Physical Hazards

Tebuconazole is stable under normal conditions of use. Heating to decomposition may release carbon dioxide, carbon monoxide, nitrogen oxides, and halogenated compounds. Avoid heat, open flames and other potential sources of ignition.

Potential Environmental Impact

Tebuconazole is not readily biodegradable. An accidental release to the environment may pose a danger to fish, invertebrates and aquatic plants prior to degradation.

Federal Insecticide, Fungicide, Rodenticide Act (FIFRA) Label

FIFRA products are registered by the United States Environmental Protection Agency (EPA) and are subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for Occupational Safety and Health Administration (OSHA) workplace labels of industrial chemicals. The pesticide label also includes other important information, including directions for use.

Conclusion

Under normal conditions of anticipated use as described in this Product Safety Assessment, and if the recommended safe use and handling procedures are followed, Tebuconazole is not expected to pose a significant risk to human health or the environment.

References

European Chemicals Agency, 1-(4-chlorophenyl)-4,4-dimethyl-3-(1,2,4-triazol-1-ylmethyl)pentan-3-ol, July 2018

NCI Global, CAS, 107534-96-3, American Chemical Society, 2018

Safety Data Sheet (SDS), Preventol A 8 Technical Fungicide, LANXESS Corporation

Contact Information

LANXESS Corporation, Product Safety & Regulatory Affairs, 111 RIDC Park West Drive, Pittsburgh, PA 15275-1112, USA, Phone 1-800-526-9377 [1-800-LANXESS]

Notices

Use and Application Information

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.