

Propiconazole

This document provides a brief description of Propiconazole, 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 LANXESS Corporation safety data sheet.

Identification

Chemical Name:	Propiconazole
Synonym(s):	1-((2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)methyl)-1H-1,2,4-triazole Propiriconazol (1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]-methyl-1H-1,2,4-triazole
CAS Number:	60207-90-1
LANXESS Products Containing Propiconazole:	<i>For a list of materials containing Propiconazole, please contact your LANXESS Corporation sales representative.</i>

Description

Overview:	Propiconazole is a yellow to light brown viscous liquid at ambient temperatures. This material has a slight, characteristic odor.						
Uses:	Propiconazole 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 the wood industry, rubber and plastics materials, paint and coating materials, caulks, sealants, adhesives, wallboards, and metalworking fluids as specifically listed on the EPA Approved FIFRA Labels.						
Properties:	<table><tr><td>Solubility in Water:</td><td>Low</td></tr><tr><td>Melting Point:</td><td>-23°C (-9.4°F)</td></tr><tr><td>Flash Point:</td><td>150°C (302°F)</td></tr></table>	Solubility in Water:	Low	Melting Point:	-23°C (-9.4°F)	Flash Point:	150°C (302°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 propiconazole containing LANXESS materials as an additive in the manufacture of other products. A much lower potential for exposure exists in facilities using the product in closed manufacturing processes by trained personnel.

Employee Training

Workers handling propiconazole should be trained to implement proper handling procedures and to understand the potential health and physical hazards. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. A NIOSH approved air-purifying respirator with organic vapor cartridges and particulate pre-filter can be used to minimize exposure. In addition, it is recommended to wear splash proof goggles and permeation resistant gloves, clothing and foot protection be worn when handling this material.

Consumer Exposure

LANXESS Corporation does not sell propiconazole, nor the aforementioned FIFRA registered products, to the general public. The general population may only be exposed to propiconazole through contact with materials containing the LANXESS FIFRA registered materials.

Short-Term Health Effects

Skin contact may cause an allergic skin reaction with symptoms of redness, swelling and rash. Eye contact may be irritating with symptoms of redness and watering. Ingestion of propiconazole may be irritating to the mouth, throat and stomach. Symptoms of ingestion may include abdominal pain, nausea, vomiting and diarrhea.

Long-Term Health Effects

Once sensitized, a severe allergic skin reaction may occur with subsequent exposure to very low levels of propiconazole. Propiconazole is classified as a possible human carcinogen.

Physical Hazards

Propiconazole 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

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, Propiconazole is not expected to pose a significant risk to human health or the environment.

References

PubChem Open Chemistry Database, Propiconazole, U.S. National Library of Medicine, National Center for Biotechnology Information

Safety Data Sheet (SDS), Preventol A12, LANXESS Corporation

ToxNet Hazardous Substances Data Bank, U.S. National Library of Medicine, National Institutes of Health and the U.S. Department of Health and Human Services

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.