

LEVAGARD PP

This document provides a brief description of LEVAGARD PP, 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 material safety data sheet (SDS), product label and other safe handling literature. For additional information consult the LANXESS Corporation material safety data sheet.

Identification

Product Name: LEVAGARD PP
Chemical Name: Reaction mass of propylene oxide and phosphorus oxychloride

Description

Overview: LEVAGARD PP is an odorless, colorless liquid at ambient temperatures.
Uses: LEVAGARD PP is sold by LANXESS for use as a flame retardant in the production of polyurethane foam products and thermoset plastics.

Properties:

Melting Point:	<-20°C (<-4°F)
Flash Point:	>245°C (>473°F) closed cup
Auto-ignition:	>400°C (>752°F)
Solubility in Water:	Soluble

Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, at bulk unloading, storage and staging areas and in facilities where the chemical is used as flame retardant in the manufacture of other products. A much lower potential for exposure exists in facilities using LEVAGARD PP in closed manufacturing processes by trained personnel.

Employee Training

Workers handling LEVAGARD PP should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. Respiratory protection is recommended in areas where high levels of vapors or aerosols may accumulate. LANXESS also recommends that safety glasses with side shields and permeation resistant gloves, clothing and foot protection be worn when handling LEVAGARD PP.

Consumer Exposure

LANXESS Corporation does not sell LEVAGARD PP to the general public.

Short-Term Health Effects

LEVAGARD PP may be harmful if swallowed. Symptoms of ingestion may include abdominal pain, nausea, vomiting and diarrhea.

Long-Term Health Effects

No long-term adverse health effects are expected.

Physical Hazards

LEVAGARD PP is stable under normal conditions of use. Avoid contact with oxidizing agents. Containers may burst if heated or pressurized. Heating to decomposition may release carbon monoxide, carbon dioxide, phosphorus oxides and halogenated compounds. Avoid heat, open flames and other potential sources of ignition.

Potential Environmental Impact

LEVAGARD PP is not readily biodegradable. An accidental release to water may pose a danger to fish (low toxicity), invertebrates (low toxicity) and aquatic plants (low toxicity) prior to degradation. LEVAGARD PP is not expected to accumulate in the environment.

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

References

International Chemical Safety Card, CAS # 13674-84-5, International Programme on Chemical Safety (IPCS)

Material Safety Data Sheet (SDS), LEVAGARD PP, LANXESS Corporation

MedlinePlus Medical Encyclopedia, U.S. National Library of Medicine and the National Institutes of Health

ToxNet Hazardous Substance 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.