LANXESS
Energizing Chemistry

Propylene Glycol Dibenzoate

This document provides a brief description of propylene glycol dibenzoate, its uses, and the potential hazards associated with short-term 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 safety data sheet.

Identification

Chemical Name: Propylene Glycol Dibenzoate

Synonym(s): 1,2-Propanediol, dibenzoate
1,2-Propanediol, 1,2-dibenzoate
Propane-1,2-diyl dibenzoate

CAS Number: 19224-26-1

Description

Overview: Propylene glycol dibenzoate is a colorless to pale yellow liquid. It is characterized by having a faint, alcoholic of metallic odor.

Uses: The high performance ester if predominately used as plasticizer and specialty solvent in plastics, cosmetics, and food industries. Within the food industry, the substance may function as a synthetic flavoring agent

Properties:

Solubility in Water:	Insoluble (7.7 mg/l, 20°C)
Flash Point:	138°C (280.4°F)
Melting Point:	-21°C (-5.8°F)
Viscosity:	81 mPA.S, 25°C
Decomposition:	295°C (563°F)

Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, at storage and staging areas and within operations where propylene glycol dibenzoate is used as an additive or processing aid in the manufacture of other products. A much lower potential for exposure exists in facilities using the chemical in closed manufacturing processes by trained personnel.

Employee Training

Workers should be trained to implement proper handling procedures and to understand the potential health and physical hazards of propylene glycol dibenzoate. Local and general exhaust ventilation should be used to keep worker exposure to airborne contaminants below any recommended or statutory limits. In cases where airborne concentrations are unknown, a NIOSH approved air-purifying respirator with organic vapor cartridges and particulate prefilter should be used to minimize exposure. In addition, LANXESS recommends safety glasses with side shields, impervious gloves and suitable protective clothing be worn when handling the substance.

Consumer Exposure

LANXESS Corporation does not sell propylene glycol dibenzoate to the general public. Consumers may be exposed to trace amounts of the substance through use of products containing the substance. However, based on the frequency and duration of use, and concentrations used in consumer products, no adverse health effects are expected.

Short-Term Health Effects

Propylene glycol dibenzoate is not expected to be irritating to skin, eyes or the respiratory tract and is not expected to be harmful if swallowed.

Long-Term Health Effects

No adverse chronic health effects are expected.

Physical Hazards

Propylene glycol dibenzoate is stable under normal conditions of use. Heating to decomposition may release carbon dioxide (CO2), carbon monoxide, nitrogen oxides and other potentially toxic fumes. Avoid heat, open flames and other potential sources of ignition.

Potential Environmental Impact

Baypure® CX is readily biodegradable. A release to environmental water sources is unlikely to pose a danger to fish, invertebrates and aquatic plants, because the actual levels of this substance in receiving waters are expected to be much lower than the effective levels, as indicated by various aquatic toxicity studies. The chemical is not expected to bioaccumulate.

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, propylene glycol dibenzoate is not expected to pose a significant risk to human health or the environment.

References

ECHA InfoCard, Propane-1,2-diyl dibenzoate, European Chemicals Agency

PubChem, National Library of Medicine, National Center for Biotechnology Information

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.