

Dibutyl phenyl phosphate

This document provides a brief description of dibutyl phenyl phosphate, 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:	Phosphoric acid, dibutyl phenyl ester
Synonym(s):	Di-n-butyl phenyl phosphate Butyl phenyl phosphate DBPP
CAS Number:	2528-36-1
Applicable LANXESS Materials:	DBPP

Description

Overview:	DBPP is a clear, slightly yellow liquid at room temperatures. The organic material has a characteristic butane-like odor.
Uses:	As sold by LANXESS, this material is a solvent for industrial applications.
Properties:	Solubility in Water: 96 mg/L (25°C) Flash Point: 220°C (>428°F), <i>EG A 9/ DIN ISO 2719, Closed Cup</i> Boiling Point: 131-132°C Vapor pressure: 0.007 mmHg (25°C)

Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, and in unloading, storage, staging and transfer operations at facilities using the aforementioned LANXESS materials containing DBPP as an additive. A much lower potential for exposure exists in facilities using this material in closed manufacturing processes by trained personnel.

Employee Training

Workers handling DBPP should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. In cases where ventilation is insufficient or airborne concentrations are unknown, a NIOSH approved, air-purifying organic vapor respirator should be used. In addition, it is recommended that splash proof goggles and permeation resistant gloves, clothing, and foot protection be worn when handling the substance.

Consumer Exposure

LANXESS Corporation does not sell DBPP, nor materials containing the substance, to the general public.

Short-Term Health Effects

DBPP may cause respiratory tract irritation with symptoms such as coughing, sore throat, and runny nose. Additional symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Long-Term Health Effects

No known significant effects or critical hazards.

Physical Hazards

DBPP is stable under normal conditions of use. Heating to decomposition may oxides of carbon and phosphorus.

Potential Environmental Impact

No known significant effects or critical hazards. DBPP is readily biodegradable. An accidental release of the substance may accumulate in the tissues of aquatic organisms.

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

References

European Chemical Agency, Dibutyl phenyl phosphate, European Chemicals Agency, December 2017

Plastics Additives Business Product Brochure: Plasticizers, LANXESS Corporation, 2012

Safety Data Sheet (SDS), DBPP, LANXESS Corporation

Screening-Level Hazardous Characterization, Dibutyl Phenyl Phosphate, U.S. Environmental Protection Agency, March 2015

ToxNet Hazardous Substances Data Bank, Dibutyl phenyl phosphate, U.S. National Library of Medicine, National Institutes of Health and the U.S. Department of Health and Human Services, 2017

Contact Information

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Notices

Use and Application Information

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