

Benzyl Benzoate

This document provides a brief description of Benzyl Benzoate, 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:	Benzyl Benzoate
Synonym(s):	Benzoic acid benzyl ester Benzoic acid, phenylmethyl ester Benzyl benzenecarboxylate
CAS Number:	120-51-4

Description

Overview:	Benzyl Benzoate is a colorless liquid at temperatures above 21°C (70°F) with a slight, aromatic odor.										
Uses:	Benzyl Benzoate is sold for use primarily as an intermediate or processing aid (solvent, viscosity adjustor, plasticizer) in the production of various commercial (i.e. fine chemicals, plastics) and consumer products (i.e. fragrances, cosmetics, personal care products, cleaners, polishes and waxes). Benzyl Benzoate is also used in topical treatments for scabies and lice infestation (miticide).										
Properties:	<table><tr><td>Solubility in Water:</td><td>Soluble</td></tr><tr><td>Boiling Point:</td><td>323°C (613°F)</td></tr><tr><td>Melting Point:</td><td>18 - 21°C (64 - 70°F)</td></tr><tr><td>Flash Point:</td><td>148°C (298°F) closed cup</td></tr><tr><td>Auto-Ignition:</td><td>480°C (896°F)</td></tr></table>	Solubility in Water:	Soluble	Boiling Point:	323°C (613°F)	Melting Point:	18 - 21°C (64 - 70°F)	Flash Point:	148°C (298°F) closed cup	Auto-Ignition:	480°C (896°F)
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Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture and in storage, transfer, maintenance and sampling operations at facilities using Benzyl Benzoate as an intermediate or additive in the manufacture of other products. A much lower potential for exposure exists in facilities using the chemical compound 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 Benzyl Benzoate exposure. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. A NIOSH approved, air-purifying respirator with N-95 filters should be worn if airborne concentration levels are unknown or exceed recommended limits. In addition, LANXESS recommends safety glasses with side-shields, permeation resistant gloves and suitable protective clothing be worn when handling Benzyl Benzoate.

Consumer Exposure

LANXESS Corporation does not sell Benzyl Benzoate to the general public. Consumers may be exposed to trace amounts of Benzyl Benzoate through use of products manufactured using the substance as an additive or processing aid.

Short-Term Health Effects

May be harmful if swallowed in sufficient quantities.

Long-Term Health Effects

No adverse chronic health effects are expected.

Physical Hazards

Benzyl Benzoate is stable under normal conditions of use. Avoid contact with acids and oxidizing agents. Avoid exposure to heat, open flames and other potential sources of ignition. Heating to decomposition may produce carbon dioxide (CO₂) and carbon monoxide.

Potential Environmental Impact

Benzyl Benzoate is readily biodegradable. It is intrinsically very toxic to aquatic life. An accidental release to environmental water sources may be toxic to aquatic life prior to degradation; however, release according to normal use or regulation-compliant controlled release should have minimal impact on the environment. Bioaccumulation is not expected.

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

References

International Chemical Safety Card, Benzyl Benzoate, World Health Organization (WHO) and the International Labour Organization (ILO)

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

PubChem Compound Summary, Benzyl Benzoate, National Library of Medicine, National Center for Biotechnology Information

PubChem Hazardous Substance Data Bank, Benzyl Benzoate, National Library of Medicine, National Center for Biotechnology Information

Safety Data Sheet (SDS), KALAMA® Benzyl Benzoate, LANXESS Corporation

Contact Information

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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.