

# Neopentyl Glycol Dibenzoate

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This document provides a brief description of neopentyl glycol dibenzoate, 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

<b>Chemical Name:</b>	1,3-Propanediol, 2,2-dimethyl-, dibenzoate
<b>Synonym(s):</b>	1,3-Propanediol, 2,2-dimethyl-, 1,3-dibenzoate 3-(benzoyloxy)-2,2-dimethylpropyl benzoate 2,2-dimethyl-1,3-propylene glycol dibenzoate Neopentyl glycol dibenzoate
<b>CAS Number:</b>	4196-89-8
<b>Applicable LANXESS Materials:</b>	Uniplex 512

## Description

<b>Overview:</b>	At ambient temperatures, 2,2-dimethylpropane-1,3-diyl dibenzoate is an odorless, white crystalline organic solid.										
<b>Uses:</b>	Neopentyl glycol dibenzoate, sold by LANXESS, functions as a plasticizer for adhesives and acrylic coatings.										
<b>Properties:</b>	<table><tr><td><b>Solubility in Water:</b></td><td>Slightly soluble</td></tr><tr><td><b>Relative Density:</b></td><td>1.246 (20°C)</td></tr><tr><td><b>Melting Point:</b></td><td>46.5°C (115.7°F)</td></tr><tr><td><b>Boiling Point:</b></td><td>&gt;300°C (572°F)</td></tr><tr><td><b>Vapor Pressure:</b></td><td>0.003 Pa (25°C)</td></tr></table>	<b>Solubility in Water:</b>	Slightly soluble	<b>Relative Density:</b>	1.246 (20°C)	<b>Melting Point:</b>	46.5°C (115.7°F)	<b>Boiling Point:</b>	>300°C (572°F)	<b>Vapor Pressure:</b>	0.003 Pa (25°C)
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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 the LANXESS manufactured material 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 materials containing neopentyl glycol dibenzoate should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. Process enclosures, explosion-proof local exhaust ventilation or other engineering controls should be used to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. It is recommended that safety glasses with side-shields, permeation resistant gloves, work clothing (long pants and long-sleeved shirts) and suitable protective footwear be worn when handling the aforementioned material. In cases where ventilation is insufficient or airborne concentrations are unknown, an appropriate respirator should be worn.

#### Consumer Exposure

LANXESS Corporation does not sell materials containing neopentyl glycol dibenzoate to the general public.

#### Short-Term Health Effects

No known significant effects or critical hazards.

#### Long-Term Health Effects

No known significant effects or critical hazards.

### Physical Hazards

Neopentyl glycol dibenzoate is stable under normal conditions of use. Avoid contact with strong oxidizing agents. Fine dust clouds may form explosive mixtures with air. Avoid heat, open flames and other potential sources of ignition.

### Potential Environmental Impact

This material is readily biodegradable. An accidental release to the environment may pose a danger to fish (low toxicity), invertebrates (low toxicity) and other aquatic organisms (low toxicity) prior to degradation. 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, this material is not expected to pose a significant risk to human health or the environment.

### References

*European Chemical Agency, 2,2-dimethylpropane-1,3-diyl dibenzoate*, December 2017

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

*Safety Data Sheet (SDS), Uniplex 512*, LANXESS Corporation

### 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.