

# PEG Di-2-Ethylhexanoate

---

This document provides a brief description of PEG di-2-ethylhexanoate, 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>	Poly(oxy-1,2-ethanediyl), $\alpha$ -(2-ethyl-1-oxohexyl)- $\omega$ -[(2-ethyl-1-oxohexyl)oxy]-
<b>Synonym(s):</b>	Polyethylene glycol di-2-ethylhexanoate Polyethylene glycol bis(2-ethylhexoate)
<b>CAS Number:</b>	9004-93-7
<b>Applicable LANXESS Material(s):</b>	Uniplex 809

## Description

<b>Overview:</b>	PEG di-2-ethylhexanoate is a liquid at ambient temperatures possessing a mild, characteristic odor.						
<b>Uses:</b>	This substance is sold by LANXESS for use as a plasticizer in the manufacturer of engineering plastics, such as polyester and polyamide resins.						
<b>Properties:</b>	<table><tr><td><b>Solubility in Water:</b></td><td>Immiscible</td></tr><tr><td><b>Relative density:</b></td><td>1.02 g/cm<sup>3</sup> (20°C)</td></tr><tr><td><b>Flash Point:</b></td><td>243.33°C (470°F) Open cup</td></tr></table>	<b>Solubility in Water:</b>	Immiscible	<b>Relative density:</b>	1.02 g/cm <sup>3</sup> (20°C)	<b>Flash Point:</b>	243.33°C (470°F) Open cup
<b>Solubility in Water:</b>	Immiscible						
<b>Relative density:</b>	1.02 g/cm <sup>3</sup> (20°C)						
<b>Flash Point:</b>	243.33°C (470°F) Open cup						

### Potential Human Health Effects

#### Occupational Exposure

Potential for occupational exposure exists during manufacture, and in unloading, storage, staging and transfer operations at facilities using PEG di-2-ethylhexanoate as an additive. A much lower potential for exposure exists in facilities using the substance in closed manufacturing processes by trained personnel.

#### Employee Training

Workers handling PEG di-2-ethylhexanoate 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, permeation resistant gloves, work clothing and suitable foot protection be worn when handling this material.

#### Consumer Exposure

LANXESS Corporation does not PEG di-2-ethylhexanoate, nor material containing the substance, 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

PEG di-2-ethylhexanoate is stable under normal conditions of use. Avoid contact with strong oxidizing agents. Heating to decomposition may release carbon monoxide and carbon dioxide. Avoid extremes of temperature.

### Potential Environmental Impact

No known significant effects or critical hazards.

### 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, PEG di-2-ethylhexanoate is not expected to pose a significant risk to human health or the environment.

## References

- Plastics Additives Business Product Brochure: Plasticizers*, LANXESS Corporation, 2012
- PubChem Open Chemistry Database, 2-(2-ethylhexanoyloxy)ethyl 2-ethylhexanoate*, U.S. National Library of Medicine, National Center for Biotechnology Information
- Safety Data Sheet (SDS), Uniplex 809*, 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.