

bis(2-Ethylhexyl) tetrabromophthalate

This document provides a brief description of bis(2-ethylhexyl) tetrabromophthalate, 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 material safety data sheet (SDS), product label and other safe handling literature. For additional information consult the LANXESS Corporation material safety data sheet.

Identification

Product Name:	UNIPLEX FRP 45
Chemical Name:	bis(2-Ethylhexyl) tetrabromophthalate
Synonym(s):	Phthalic acid, tetrabromo-, (di(2-ethylhexyl) TBPH
CAS Number:	26040-51-7

Description

Overview:	Bis(2-ethylhexyl) tetrabromophthalate is a clear to yellow liquid at ambient temperatures. The chemical has a characteristic odor.										
Uses:	Bis(2-ethylhexyl) tetrabromophthalate is sold by LANXESS for use as a flame retardant and plasticizer in vinyl products. The chemical is also used as a flame retardant in wire and cable insulation, carpet backing, fabrics, wall coverings, adhesives, coatings and polyurethane foam.										
Properties:	<table><tr><td>Melting Point:</td><td>-27°C (-16.6°F)</td></tr><tr><td>Boiling Point:</td><td>>=300°C (572°F)</td></tr><tr><td>Flash Point:</td><td>207°C (404.6°F) closed cup</td></tr><tr><td>Auto-ignition:</td><td>370°C (698°F)</td></tr><tr><td>Solubility in Water:</td><td>Slight</td></tr></table>	Melting Point:	-27°C (-16.6°F)	Boiling Point:	>=300°C (572°F)	Flash Point:	207°C (404.6°F) closed cup	Auto-ignition:	370°C (698°F)	Solubility in Water:	Slight
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Potential Human Health Effects

Occupational Exposure

Potential for occupational exposure exists during manufacture, at bulk unloading, storage and staging areas and during transfer operations in facilities using bis(2-ethylhexyl) tetrabromophthalate as an additive or intermediate. A much lower potential for exposure exists in facilities using bis(2-ethylhexyl) tetrabromophthalate in closed manufacturing processes by trained personnel.

Employee Training

Workers handling bis(2-ethylhexyl) tetrabromophthalate should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. A NIOSH approved air-purifying organic vapor respirator should be used in cases where ventilation is insufficient or airborne concentrations are unknown. In addition, LANXESS recommends splash goggles, permeation resistant gloves, long pants, long-sleeved shirts and suitable protective footwear be worn when handling bis(2-ethylhexyl) tetrabromophthalate.

Consumer Exposure

LANXESS Corporation does not sell bis(2-ethylhexyl) tetrabromophthalate 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

Bis(2-ethylhexyl) tetrabromophthalate is stable under normal conditions of use. Contact with strong alkalis may cause hydrolysis and the release of bromine. Heating to decomposition may release carbon monoxide, carbon dioxide, halogenated compounds and other potentially toxic fumes or gases. Avoid heat, open flames and other potential sources of ignition.

Potential Environmental Impact

Bis(2-ethylhexyl) tetrabromophthalate is not readily biodegradable. A release to water may pose a danger to fish (low toxicity), invertebrates (low toxicity) and aquatic plants (low toxicity) prior to degradation. Bis(2-ethylhexyl) tetrabromophthalate may adsorb to suspended soils and sediments and 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, bis(2-ethylhexyl) tetrabromophthalate is not expected to pose a significant risk to human health or the environment.

References

Material Safety Data Sheet (SDS), UNIPLEX FRP 45, LANXESS Corporation

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

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.