

Isohexadecane

This document provides a brief description of isohexadecane, 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 safety data sheet.

Identification

Product Name:	Purolan IHD
Chemical Name:	Isohexadecane
Synonym(s):	2,2,4,4,6,8,8-Heptamethylnonane
CAS Number:	93685-80-4

Description

Overview:	Isohexadecane is a clear, colorless and odorless liquid at ambient temperatures.										
Uses:	Isohexadecane is sold by LANXESS for use as an ingredient in the manufacture of moisturizers, sunscreens, lip creams, deodorants, make up removers and other personal care products.										
Properties:	<table><tr><td>Boiling Point:</td><td>410 - 482°F (210 - 250°C)</td></tr><tr><td>Flash Point:</td><td>203°F (95°C)</td></tr><tr><td>Solubility in Water:</td><td>Low</td></tr><tr><td>Auto-ignition:</td><td>752°F (400°C)</td></tr><tr><td>Melting Point:</td><td>752°F (400°C)</td></tr></table>	Boiling Point:	410 - 482°F (210 - 250°C)	Flash Point:	203°F (95°C)	Solubility in Water:	Low	Auto-ignition:	752°F (400°C)	Melting Point:	752°F (400°C)
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Potential Human Health Effects

Occupational Exposure

Potential for exposure exists during manufacture, during transfers to storage or staging areas and while performing sampling and cleaning operations in facilities using the chemical as an ingredient in the manufacture of other products. A much lower potential for exposure exists in facilities using the chemical in closed manufacturing processes by trained personnel.

Employee Training

Workers handling isohexadecane should be trained to implement proper handling procedures and to understand the potential health and physical hazards of this product. A NOISH approved air-purifying respirator is recommended for unloading, sampling and other operations not contained within a closed system. In addition, LANXESS recommends that goggles, permeation resistant clothing, gloves and foot protection be worn when handling Isohexadecane.

Consumer Exposure

LANXESS does not sell isohexadecane to the general public. The chemical is approved for use in personal care products and no adverse health effects are expected when used as directed.

Short-Term Health Effects

Eye contact with isohexadecane may be mildly irritating. Inhalation may cause lung damage. Ingestion of isohexadecane resulting in aspiration of liquid to the lungs may cause lung damage and respiratory failure. Aspiration to the lungs in sufficient quantities may be fatal.

Long-Term Health Effects

No long-term adverse health effects are expected.

Physical Hazards

Isohexadecane is stable under normal conditions of use. Isohexadecane is combustible at high temperatures. Heating to decomposition may release carbon monoxide, carbon dioxide or other potentially toxic gases. Avoid heat, open flames and other potential sources of ignition. Isohexadecane is incompatible with strong oxidizing materials.

Potential Environmental Impact

Isohexadecane is inherent biodegradable. An accidental release to water may pose a danger to fish (low toxicity), invertebrates (low toxicity) and other aquatic organisms (low toxicity) prior to degradation. Isohexadecane has a low potential for bioaccumulation.

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

References

International Uniform Chemical Information Database (UCLID Dataset - 93685-80-4), European Chemicals Agency, European Commission

Safety Data Sheet (SDS), Purofan IHD, 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 conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of production evaluation(s)), 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 at least must include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by LANXESS. All information is given without warranty or guarantee. It is expressly understood and agreed that customer assumes and hereby expressly releases LANXESS from all liability, in tort, contract or otherwise, incurred in connection with the use of our products and information. Any statement or recommendation not contained herein is unauthorized and shall not bind LANXESS Corporation. Nothing herein shall be construed as a recommendation to use any product in violation of any patent covering any material or its use. No permission or license to use any patent is implied or in fact granted by this publication.