

# Petroleum white mineral oil

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This document provides a brief description of petroleum white mineral oil, 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 (MSDS), product label and other safe handling literature. For additional information consult the LANXESS safety data sheet.

## Identification

<b>Product Name:</b>	Petroleum white mineral oil
<b>Chemical Name:</b>	Aliphatic petroleum distillates
<b>Synonym(s):</b>	Paraffin oil
<b>CAS Number:</b>	8042-47-5

## Description

<b>Overview:</b>	Petroleum white mineral oil is a clear, water white, nearly odorless liquid at ambient temperatures.	
<b>Uses:</b>	Petroleum white mineral oil is sold by LANXESS primarily for use as a softening agent and water repellent in leather processing applications. The chemical is also used as a lubricant, release agent or additive in a wide range of consumer and industrial products.	
<b>Properties:</b>	<b>Boiling Point:</b>	>446°F (230°C)
	<b>Flash Point:</b>	200°F (93°C)
	<b>Solubility in Water:</b>	Insoluble

## **Potential Human Health Effects**

### **Occupational Exposure**

Potential for occupational exposure exists during manufacture, at storage and staging areas and in operations using the chemical as an additive or 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 petroleum white mineral oil should be trained to implement proper handling procedures and to understand the potential health and physical hazards of the chemical. A NIOSH approved air supplied respirator is recommended where airborne concentrations of the chemical may exceed exposure limits. In addition, LANXESS recommends that goggles, permeation oil-resistant clothing, gloves and foot protection be worn when handling white petroleum mineral oil.

### **Consumer Exposure**

LANXESS Corporation does not sell petroleum white mineral oil to the general public. The chemical has been approved for use in personal care and cosmetic products and for use as a food additive. Consumers may also be exposed to petroleum white mineral oil through handling of products manufactured using the chemical as an additive.

### **Short-Term Health Effects**

Contact with petroleum white mineral oil may cause mild eye irritation. Heated oil may cause thermal burns. Ingestion, inhalation of mists or vapors and adsorption through the skin in sufficient quantities may be harmful. Symptoms of exposure include nausea, vomiting and diarrhea. Aspiration of liquid into the lungs may result in chemical pneumonitis, lung damage, reduced pulmonary function or death. Symptoms of chemical pneumonitis may be delayed.

### **Long-Term Health Effects**

Prolonged or repeated skin contact may aggravate existing skin disorders.

## **Physical Hazards**

Petroleum white mineral oil is stable under normal conditions of use. Avoid contact with strong oxidizers as well as direct sunlight/ultraviolet light. Heating petroleum white mineral oil to decomposition may release carbon dioxide, carbon monoxide and other toxic gases. Petroleum white mineral oil is flammable. Avoid heat, open flames and other potential sources of ignition.

## **Potential Environmental Impact**

Petroleum white mineral oil is biodegradable. An accidental release to water may pose a danger to fish (low toxicity), invertebrates (low toxicity) and aquatic plants (low toxicity) prior to degradation. The chemical is not expected to bioaccumulate.

## **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, petroleum white mineral oil is not expected to pose a significant risk to human health or the environment.

## **References**

*Directorate E – Safety of the food chain: Paraffin Oil CAS No 8042-47-5*, European Commission, Health and Consumers Directorate-General

*International Chemical Safety Cards (White Mineral Oil)*, U.S. National Institute for Occupational Safety and Health (NIOSH)

*Safety Data Sheet (SDS), Gloria White Mineral Oil*, Sonneborn

*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.