

11/8/06

MATERIAL SAFETY DATA SHEET

LANOLIN ANHYDROUS

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SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS

PRODUCT NAME: Lanolin Anhydrous, USP

SYNONYMS: Anhydrous Lanolin, Wool Fat

MOLECULAR FORMULA: Mixture of fatty acid esters of cholesterol, lanosterol, and fatty alcohols.

CHEMICAL FAMILY: Wax, ester.

INGREDIENT (CAS #)	%	OSHA PEL	ACGIH TLV
Lanolin anhydrous (8006-54-0)	100	N/A	N/A

SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: >300°C (decomposes)

VAPOR PRESSURE: N/A

MELTING POINT: 36-42°C

VAPOR DENSITY: N/A

SPECIFIC GRAVITY: 0.9 (@ 65°C)
(WATER = 1)

EVAPORATION RATE: Nil
(BUTYL ACETATE = 1)

WATER SOLUBILITY: Insoluble

WATER REACTIVE: No

APPEARANCE AND ODOR: Pale yellow to amber, soft wax with a mild, characteristic odor.

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): 288°C (Open Cup)

AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A

UPPER: N/A

EXTINGUISHING MEDIA: Water spray, carbon dioxide, dry chemical, or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: As with any organic compound, this material may produce toxic carbon monoxide and/or carbon dioxide fumes if heated to decomposition as under fire conditions.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable (X) Unstable ()

INCOMPATIBILITY (MATERIALS TO AVOID): Concentrated nitric or sulfuric acid; strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: As with any organic compound, this material may produce toxic carbon monoxide and/or carbon dioxide fumes if heated to decomposition.

HAZARDOUS POLYMERIZATION: May Occur () Will Not Occur (X)

SECTION 5 - HEALTH HAZARD DATA

TOXICITY: No specific toxicity data is available for this product.

CARCINOGEN LISTED BY:	NTP	Yes ()	No (X)
	IARC	Yes ()	No (X)
	OSHA	Yes ()	No (X)
	Other	Yes ()	No (X)

ROUTES OF ENTRY: Inhalation, ingestion, absorption.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

INHALATION: Due to the low vapor pressure, no harmful effects or exposure symptoms expected.

EYE CONTACT: May cause slight contact irritation.

SKIN CONTACT: May cause mild irritation after sustained contact in sensitive persons.

INGESTION: May cause mild irritation of the gastrointestinal tract and slight nausea.

CHRONIC EFFECTS OF OVEREXPOSURE: None known.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Overexposure is unlikely to aggravate any existing medical conditions.

OTHER PRECAUTIONS TO CONSIDER: None known.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Due to the low vapor pressure, no harmful effects are anticipated.

EYE CONTACT: Flush with water for 15 minutes. If irritation persists or develops seek medical attention.

SKIN CONTACT: Wash with soap and water. If irritation persists or develops seek medical attention.

INGESTION: No harmful effects expected, however, it is recommended to give two glasses of water and induce vomiting then seek medical assistance.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: None necessary.

PROTECTIVE GLOVES: Rubber.

EYE PROTECTION: Safety glasses. Avoid wearing contact lenses when working with this or any chemical due to the possibility of increased severity of eye damage.

VENTILATION: None necessary.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

HYGIENIC WORK PRACTICES: Wash thoroughly after handling and wash any contaminated clothing before reuse.

SECTION 7 - HANDLING AND STORAGE PRECAUTIONS

HANDLING PRECAUTIONS: Avoid contact with eyes, skin or clothing. Wash thoroughly after handling and wash any contaminated clothing before reuse.

STORAGE PRECAUTIONS: Store in a tight container in a cool, dry, well ventilated location away from incompatible materials.

OTHER PRECAUTIONS: Any use of this product in elevated-temperature processes should be thoroughly evaluated to determine safe operating conditions. A release of hot organic vapors or mists from equipment operating at elevated temperature and pressure may result in ignition without the presence of obvious ignition sources.

SECTION 8 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: Wear all protective gear including goggles and gloves. Scoop up spillage and place in a tight container. Wash and ventilate spill site. Wash thoroughly after handling and wash all contaminated clothing and protective gear before reuse.

WASTE DISPOSAL METHOD: Dispose of in accordance with all applicable local, state, federal, and environmental regulations.

SECTION 9 - DISCLAIMER

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DEFINITIONS OF ABBREVIATIONS USED:

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS:	Chemical Abstract Service
IARC:	Internal Agency for Research on Cancer
IDLH:	Immediately Dangerous to Life or Health level
LC ₅₀ :	Median Lethal Concentration
LD ₅₀ :	Median Lethal Dose
MSHA:	Mine Safety and Health Administration
N/A:	Not available
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PEL:	Permissible Exposure Limit
STEL:	Short Term Exposure Limit
TLV:	Threshold Limit Value
TWA:	Time Weighted Average