

Palmitoyl Isoleucine

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /
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1 PRODUCT & COMPANY IDENTIFICATION

Product Name:	Palmitoyl Isoleucine	Distributor:	MakingCosmetics Inc.
Synonyms:	No data available	Address:	10800 231 st Way NE Redmond, WA 98053 (USA)
INCI Name:	Palmitoyl Isoleucine, Palmitic acid	Phone / Fax:	425-292-9502 / 425-292-9601
CAS Number:	54617-29-7, 57-10-3	Web:	www.makingcosmetics.com
Formula:	No data available		
Product Form:	Liquid		
Product Use:	Cosmetic use	Emergency Telephone Number:	1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Eye irritation - Category 2A
OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Signal Word: WARNING
GHS Hazard Pictograms:



GHS Hazard Statements: Causes serious eye irritation.
GHS Precautionary Statements: Wear eye or face protection.
Potential Health Hazards: Eyes: Causes serious eye irritation.
Inhalation: Airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat, and lungs.
Skin: No known significant effects or critical hazards.
Ingestion: Irritating to mouth, throat, and stomach.

NFPA Ratings (704):	Health	2	Moderate
	Flammability	0	Minimal
	Reactivity	0	Minimal
	Specific Hazard	N/A	
HMIS Ratings:	Health	2	Moderate
	Flammability	0	Minimal
	Physical	0	Minimal
	Hazards		

3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Palmitoyl Isoleucine	54617-29-7	90 - 100%	Not Available
Palmitic acid	57-10-3	0 - 10%	Not Available
Water	7732-18-5	0 - 1%	Not Available

4 FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, or if breathing is irregular or respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

Skin:	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion:	Do Not Induce Vomiting (unless directed to do so by medical personnel). Never give anything by mouth to an unconscious person. Wash out mouth with water. Remove dentures, if any. If the material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.
Adverse Symptoms:	Eye contact may cause adverse symptoms including pain, irritation, watering, and/or redness. Inhalation adverse symptoms include respiratory tract irritation, and/or coughing. No adverse symptoms are noted for skin contact or ingestion.
First-Aid Notes:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatments noted. No action shall be taken involving any personal risk or without suitable training. It may be dangerous for the person providing mouth to mouth resuscitation.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	May be combustible at high temperatures. Use appropriate media for surrounding environment and adjacent fire. No unsuitable extinguish media known.
Special protective equipment & precautions for firefighters:	Wear self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode, and full protective clothing, including eye protection and boots. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is no fire. No action shall be taken involving any personal risk or without suitable training.
Flash Points:	Not applicable.
Specific hazards arising from the chemical:	No specific fire or explosion hazard. Decomposition products may include, carbon dioxide and carbon monoxide. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions:	Avoid liquid release into sewers/public water/environment. Notify environmental authorities in case of leak.
Methods and material for containment and cleaning up:	For small spills, move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. For large spills, move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor, in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling:	Do not ingest. Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse containers. Use good personal hygiene practice. See section 8 for recommendations on the use of personal protective equipment.
Conditions for safe storage, incl. any incompatibilities:	Store in accordance with local regulations. Store in original container protected from direct sunlight, in a cool, dry, and well-ventilated area, away from food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Palmitoyl Isoleucine	None		

TWA: Time Weighted Average over 8 hours of work.
 TLV: Threshold Limit Value over 8 hours of work.
 REL: Recommended Exposure Limit
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.
 IDLH: Immediately Dangerous to Life or Health
 WEEL: Workplace Environmental Exposure Levels
 CEIL: Ceiling

Personal Protection:

- Eyes:** Wear chemical splash goggles. If operating conditions cause high dust concentrations to be produced, use dust goggles.
- Inhalation:** Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Body:** Wear impervious, chemical resistant gloves (made of nitrile rubber or PVC) and full protective clothing. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other:** Use good personal hygiene practices. Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reuse. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid, (prills, powder)	Vapor Pressure:	No data available
Odor:	Slight, characteristic	Vapor Density:	No data available
Odor Threshold:	No data available	Oxidizing Properties:	No data available
Color:	White	Flammability:	Non-flammable
Molecular Weight:	No data available	Upper/lower Explosive Limit:	No data available
pH:	No data available	Flash Point:	Not applicable
Boiling Point:	462 - 464°F (239 - 240°C)	Specific Gravity:	No data available
Melting/Freezing Point:	203 - 204°F (95 - 96°C)	Water Solubility:	0,0015 g/l Insoluble in cold water
Relative Density:	0,999 - 1,001	Auto-Ignition Temperature:	Not applicable
Partition Coefficient: n-octanol/water:	7.67	Decomposition Temperature:	No data available
Viscosity:	No data available	Explosive Properties:	No data available
%Particles with aerodynamic diameter ≤ 10 µm:	0,1	Granulometry:	>500 µm - 96.3%; 100 < 500 µm - 3%; 10 < 100 µm - 0.6%

10 STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability:	The product is stable.
Hazardous Polymerization:	No data available.
Conditions to Avoid:	No data available.
Incompatible Materials:	Oxidizing agents.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possible Hazardous Reactions:	Hazardous reactions or instability may occur under certain conditions of storage or use.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not classified as dangerous.
Skin:	Not irritating to skin.
Eyes:	No data available.
Inhalation:	No data available.

Ingestion:	Palmitoyl Isoleucine; Oral 2500 mg/kg.
Carcinogenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Germ Cell Mutagenicity:	(Bacteria) Palmitoyl Isoleucine; Experiment: In vitro; OCDE 471 Ames Test; Result: Negative. Not mutagenic in Ames test. No known significant effects or critical hazards.
Developmental Effects:	No known significant effects or critical hazards.
Fertility Effects:	No known significant effects or critical hazards.
Specific Target Organ Toxicity:	No data available.
Developmental Effects:	No known significant effects or critical hazards.
Skin Sensitization:	Non-sensitizer to skin.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Aquatic Vertebrate:	(Daphnia) Palmitoyl Isoleucine; Test: OECD 211; Result: Chronic NOEC >5,26 mg/l; Exposure: 21 days.
Aquatic Invertebrate:	No data available.
Aquatic Algae:	(Algae) Palmitoyl Isoleucine; Test: OCDE 201; Result: Acute EC50 > 2,56 mg/l fresh water; Exposure: 72 hours.
Terrestrial:	No data available.
Persistence and Degradability:	(Activated sludge) Palmitoyl Isoleucine; Test: OCDE 301F; Result: 72.2% - 28 days; Dose: 100.3 mg/l. Readily biodegradable.
Bioaccumulative Potential:	LogP _{ow} : 6.67. High potential for bioaccumulation.
Mobility in Soil:	No data available.
PBT and vPvB Assessment:	No data available.
Other Adverse Effects:	No known significant effects or critical hazards.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal, contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product.
Product Containers:	Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

14 TRANSPORT INFORMATION

DOT (Dept. of Transportation, USA):	Not-regulated.
TDG (Transportation of Dangerous Goods, Canada):	Not-regulated.
IMDG (International Maritime Dangerous Goods):	Not-regulated.
IATA (International Air Transport Association):	Not-regulated.
ICAO (International Civil Aviation Organization):	No data available.
Mexico Classification:	Not-regulated.
Special Precautions for User:	Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

15 REGULATORY INFORMATION

TSCA Inventory Status:	No data available.
Clean Air Act Section 112:	Not listed in section 112 (b) Hazardous Air Pollutants (HAPS).
Clean Air Act Section 602:	Not listed under section 602 Class I or Class II substances.
DEA List Chemicals:	Not listed under List 1 precursor chemicals, or List II essential chemicals.
SARA 302/304:	No products were found.
SARA 311/312:	Eye irritation - Category 2A.
States Right to Know:	No components are listed under MA, NJ, NY, or PA.
California Prop 65:	This product does not require a safe harbor warning under California Prop. 65.
Canada (DSL):	No data available.
EU (EINECS):	No data available.
China (IECSC):	No data available.
Australia (AICS):	No data available.
Japan (ENCS):	No data available.
Philippines (PICCS):	No data available.
Korea (KECI):	No data available.
New Zealand (NZIoC):	No data available.

16 OTHER INFORMATION

Revision Date:	08-Aug-2024
Compliance:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
Disclaimer:	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.