Cetyl Palmitate

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / March 26, 2012 / Rules and Regulation

Revision Date: 06-Sep-2024
Supersedes: 09-Sep-2021

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Cetyl Palmitate
Synonyms: No data available
INCI Name: Cetyl Palmitate
CAS Number: 540-10-3
Formula: No data available
Product Form: Solid
Product Use: Cosmetic use

Distributor: MakingCosmetics Inc.
Address: 10800 231st Way NE
Redmond, WA 98053 (USA)
Phone / Fax: 425-292-9502 / 425-292-9601
Web: **www.makingcosmetics.com**

Emergency Telephone Number: 1-800-424-9300 (Chemtrec)

2 HAZARDS IDENTIFICATION

GHS Classification: Not classified.
GHS Labeling: Not a dangerous substance according to GHS.
GHS Hazard Pictograms: None.
GHS Hazard Statements: None.
GHS Precautionary Statements: None.
Potential Health Hazards: Eyes: May be an irritant.
Inhalation: May be an irritant.
Skin: May be an irritant.
Ingestion: May cause nausea, vomiting, or diarrhea.

NFPA Ratings (704):

Health	0	Minimal
Flammability	1	Slight
Reactivity	0	Minimal
Specific Hazard	N/A	

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Cetyl Palmitate	540-10-3	100%	Not Available

4 ROUTES OF EXPOSURE, SYMPTOMS, AND FIRST AID MEASURES

Eyes Exposure and Symptoms: Although the material is not thought to be an irritant (as classified by EC directives), direct contact with the eye may cause transient discomfort characterized by tearing or conjunctival redness (as with windburn). Slight abrasive damage may also result. The material may produce foreign body irritation in some individuals.

Inhalation Exposure and Symptoms: The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). However, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of the product. Fine mist generated from plant/vegetable (or rarely from animal) oils may be hazardous. Extreme heating for prolonged periods, at high temperatures, may generate breakdown product which include acrolein and acrolein-like substances.

Skin Exposure and Symptoms: The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). However, good hygiene practice required that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

Ingestion Exposure and Symptoms: The material has NOT been classified by EC Directives or other classifications systems as “harmful by ingestion.” This is because of the lack of corroborating animal human evidence. The material may still be damaging to the health of the individual, following ingestion, especially where pre-existing organ (e.g. liver, kidney) damage is evident. Present definitions of harmful or toxic substances are generally based on doses producing mortality rather than those producing morbidity (e.g. disease, ill-health) gastrointestinal tract discomfort may produce nausea and vomiting.

Eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after

an eye injury should only be undertaken by skilled personnel.

Inhalation: If fumes, aerosols, or combustion products are inhaled, remove from contaminated area. Other measures are usually unnecessary.

Skin: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Ingestion: Immediately give a glass of water. First aid is not generally required. If in doubt, contact a poison information center or doctor.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media: May be combustible at high temperatures. Use appropriate media (foam, dry chemical powder, BCF (where regulations permit), carbon dioxide, water spray) for adjacent fire. Fog may be used for large fires. No unsuitable extinguish media listed.

Special protective equipment & precautions for firefighters: Wear self-contained breathing apparatus and full protective clothing, including eye protection and boots. Prevent by any means, available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot.

Flash Points: 517.64°F (269.80°C)

Specific hazards arising from the chemical: Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine bleaches, pool chlorine, etc. as ignition may result. See also Stability and reactivity section.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment & emergency procedures: 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: Clear area of personnel and move upwind. Alert fire brigade and tell them location and nature of hazard. Control personal contact with the substance by using protective equipment and dust respirator. Prevent spillage from entering drains, sewers, or water courses. Avoid generating dust. Dispose of absorbed material in accordance with the regulations.

7 HANDLING & STORAGE

Precautions for safe handling: Rags wet/soaked with unsaturated hydrocarbons/drying oils may auto-oxidize; generate heat and in time, smolder and ignite. This is especially the case where oil-soaked materials are folded, bunched, compressed, or piled together. This allows the heat to accumulate or even accelerate the reaction. Oily cleaning rags should be collected regularly and immersed in water, or spread to dry in a safe place away from direct sunlight or stored, immersed, in solvents in suitably closed containers. Limit all unnecessary personal contact. Wear protective clothing when risk of explosion occurs. 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 original containers. Keep containers securely sealed. Store in a cool, dry area protected from environmental extremes. Protect containers against physical damage and check regularly for leaks. Store away from incompatible materials (see section 10 for incompatibilities).

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Exposure Limits	Basis	Entity
Cetyl Palmitate	10 mg/m3	Not available	Not available

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: Safety glasses with side shields or chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and absorption

	for the class of chemicals in use and an account of injury experiences. Medical and first aid personnel should be trained in their removal and suitable equipment should be readily available.
Inhalation:	Wear dust mask with particle filter (AS/NZS 1716 & 1715, EN 143:000 & 149.001. ANSI Z88 or national equivalent)
Body:	Suitability and durability of glove type is dependent on usage. Selection should be based on frequency and duration of contact, chemical resistance of glove material, glove thickness and dexterity. Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). Wear full protective clothing including overalls and barrier cream.
Other:	Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid	**Vapor Pressure:**	No data available
Odor:	No data available	**Vapor Density:**	No data available
Odor Threshold:	No data available	**Evaporation Rate:**	No data available
Color:	White	**Flammability:**	No data available
Molecular Weight:	No data available	**Upper/lower Explosive Limit:**	No data available
pH:	pH as a solution (5%) 5.0	**Flash Point:**	517.64ºF (269.8ºC)
Boiling Point:	944.6ºF (507ºC)	**Specific Gravity:**	No data available
Melting/Freezing Point:	109.4 - 116.6ºF (43 - 47ºC)	**Water Solubility:**	Immiscible
Relative Density:	0.858 (water=1)	**Auto-Ignition Temperature:**	No data available
Partition Coefficient: n-octanol/water:	No data available	**Decomposition Temperature:**	No data available
Viscosity:	No data available	**Explosive Properties:**	No data available
Oxidizing Properties:	No data available	**Metal Corrosion:**	No data available

10 STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical Stability:	Stable.
Hazardous Polymerization:	No data available.
Conditions to Avoid:	No data available.
Incompatible Materials:	Avoid contamination of water, foodstuffs, feed, or seed. Avoid reaction with oxidizing agents.
Hazardous Decomposition Products:	No data available.
Possible Hazardous Reactions:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available.
Skin:	The material is not thought to produce adverse health effects or skin irritation following contact, however protective clothing should be worn to keep skin exposure to a minimum.
Eyes:	Although the material is not thought to be an irritant. Direct contact with the eye may cause transient discomfort characterized by tearing, or conjunctival redness (as with windburn). Slight abrasive damage may also result. The material may produce foreign body irritation in some individuals.
Inhalation:	The material is not thought to produce adverse health effects or irritation of the respiratory tract, however proper respiratory protection is required.
Ingestion:	May cause nausea, vomiting, or diarrhea.
Vapors (mg/l):	The material is not thought to produce adverse health effects or irritation of the respiratory tract. However good hygiene practice requires exposure be kept to a minimum.
Gases (ppmV):	The material is not thought to produce adverse health effects or irritation of the respiratory tract. However good hygiene practice requires exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product. Fine mists generated from plant/vegetable (or more rarely from animal) oils may be hazardous. Extreme heating for prolonged periods, at high temperatures, may generate breakdown products which include acrolein and acrolein-like substances.
Dusts and Mists (mg/l):	The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). However, good hygiene practice

	requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product. Fine mists generated from plant/vegetable (or more rarely from animal) oils may be hazardous. Extreme heating for prolonged periods, at high temperatures, may generate breakdown product which include acrolein and acrolein-like substances.
Carcinogenicity:	No data available.
Teratogenicity:	No data available.
Germ Cell Mutagenicity:	No data available.
Specific Target Organ Toxicity:	No data available.
Reproductive Toxicity:	No data available.
Sensitization:	No data available.

12 ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Aquatic Vertebrate:	No data available.
Aquatic Invertebrate:	No data available.
Terrestrial:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	Low (LogKOW = 14.615).
Mobility in Soil:	LOW (KOC = 178500000).
PBT and vPvB Assessment:	No data available.
Other Adverse Effects:	No data available.

13 DISPOSAL CONSIDERATIONS

Waste Residues:	Do not dump into any sewers, on the ground, or into any body of water. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. For unused and uncontaminated product, the preferred methods include sending to a licensed, permitted, recycler, reclaimer, incinerator, or other thermal destruction device. If the material is released into the environment the user should determine whether the spill should be reported to the appropriate local, state, and federal authorities. 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. Regulations may vary in different locations.
Product Containers:	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):	Non-regulated material.
TDG (Transportation of Dangerous Goods, Canada):	No data available.
IMDG (International Maritime Dangerous Goods):	Not regulated for transport of hazardous goods. Not a marine pollutant.
IATA (International Air Transport Association):	Not regulated for transport of hazardous goods.
ICAO (International Civil Aviation Organization):	No data available.

15 REGULATORY INFORMATION

TSCA Registered:	Listed.
TSCA 5(a) SNUR:	No.
Canada (DSL):	Listed.
EU (EINECS):	No data available.
China Inventory List:	Listed.
Australia (AICS):	Listed.
Japan (MITI):	Listed.
Philippines (PICCS):	Listed.
Korean Inventory List:	Listed.

New Zealand (NZIoC): Not listed.

16 OTHER INFORMATION

Revision Date: 06-Sep-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 suitableness & completeness of such information for his own particular use.