

Vitamin A (retinyl palmitate)

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

Revision Date: 02-10-2017
Supersedes: 08-24-2015

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Vitamin A (retinyl palmitate) Synonyms: Retinol palmitate, vitamin A palmitate INCI Name: Retinyl palmitate CAS Number: 79-81-2 Formula: C ₃₆ H ₆₀ O ₂ Product Form: Liquid Product Use: Cosmetic use	Distributor: MakingCosmetics.com Inc. Address: 10800 231 st 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)
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2 HAZARDS IDENTIFICATION

GHS Classification:	Repr. 1B, Aquatic Chronic 4												
GHS Signal Word:	WARNING												
GHS Hazard Pictograms:													
GHS Hazard Statements:	H360: May damage fertility or the unborn child H413: May cause long lasting harmful effects to aquatic life												
GHS Precautionary Statements:	P501: Dispose of contents in accordance with local regulation												
Potential Health Hazards:	Eyes: May be irritant. Inhalation: Not expected to be irritant. Skin: May be irritant. Ingestion: Harmful if swallowed.												
NFPA Ratings (704):	<table border="1" style="border-collapse: collapse; width: 100%;"> <tr> <td style="background-color: #0070C0; color: white;">Health</td> <td style="text-align: center;">1</td> <td style="text-align: center;">Slight</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">Flammability</td> <td style="text-align: center;">1</td> <td style="text-align: center;">Slight</td> </tr> <tr> <td style="background-color: #FFFF00; color: black;">Reactivity</td> <td style="text-align: center;">0</td> <td style="text-align: center;">Minimal</td> </tr> <tr> <td>Specific Hazard</td> <td colspan="2" style="text-align: center;">n/a</td> </tr> </table>	Health	1	Slight	Flammability	1	Slight	Reactivity	0	Minimal	Specific Hazard	n/a	
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Flammability	1	Slight											
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Specific Hazard	n/a												

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %	Molecular Weight
Retinyl palmitate	79-81-2	90-100%	524.86 g/mol
Tocopherol	1406-18-4	Not available	430.71 g/mol
Soybean oil	8001-22-7	Not available	920 kg/kmol

4 FIRST AID MEASURES

Eyes:	Flush eyes with water for 15 minutes. Seek medical advice should irritation occur and persist.
Inhalation:	Move to fresh air. Call a physician immediately.
Skin:	Wash off skin with soap and water. Get medical attention if irritation develops or persists.
Ingestion:	Wash out mouth thoroughly with water. Do not induce vomiting; seek medical attention.

5 FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:	Use dry chemical, CO ₂ , water spray or "alcohol" foam
Special protective equipment & precautions for firefighters:	Firefighters should wear full protective clothing including self-contained breathing Apparatus.
Flash Points:	Not determined
Specific hazards arising from the chemical:	Burning produces irritant fumes.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective	See section 8 for recommendations on the use of personal protective equipment.
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equipment & emergency procedures:
Environmental precautions:

Prevent product from entering drains or being released into the environment.

Methods and material for containment and cleaning up:

Contain any spilled material immediately with dry agent (sand, vermiculite, etc.) and vacuum or shovel into labeled containers for disposal.

7 HANDLING & STORAGE

Precautions for safe handling:

Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment.

Conditions for safe storage, incl. any incompatibilities:

+4°C, store under nitrogen, protect from light

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Vitamin A palmitate	Not determined		

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 goggles w/ side shields

Inhalation: Breathing apparatus only if aerosol or dust is formed.

Body: As appropriate to operating conditions to avoid contact.

Other: Handle in accordance with good industrial hygiene and safety practice.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance, Physical State:	Oily liquid	Vapor Pressure:	Not available
Odor:	Faint	Vapor Density:	Not available
Taste:	Not available	Evaporation Rate:	Not available
Color:	Golden yellow	Flammability:	Not available
Molecular Weight:	524.86 g/mol	Upper/lower Explosive Limit:	Not available
pH (1% sol. in water)	Not available	Solubility:	Insoluble in water
Boiling Point:	Not available	Flash Point:	Not available
Melting Point:	29-29°C	Specific Gravity:	Not available

10 STABILITY AND REACTIVITY

Reactivity: Product is stable

Chemical Stability: Stable under normal conditions of storage and handling.

Hazardous Polymerization: Stable under normal processing

Conditions to Avoid: Exposure to air or moisture over prolonged periods.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating gases and vapors such as carbon oxides.

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: Acute oral toxicity (LD50) 7910 mg/kg (rat); 6060 mg/kg (mouse)

Skin: May cause moderate to severe erythema (redness) and moderate edema (raised skin).

Eyes: May irritate the eyes

Respiratory: Data not available

Ingestion: Harmful if swallowed. May cause gastrointestinal effects such as vomiting and diarrhea.

Carcinogenicity: Not available

Teratogenicity: Not available

Germ Cell Mutagenicity: Not available

Embryotoxicity:	Not available
Specific Target Organ Toxicity:	Not available
Reproductive Toxicity:	Not available
Respiratory/Skin Sensitization:	Not available

12 ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate:	Not available
Aquatic Invertebrate:	Not available
Terrestrial:	Not available
Persistence and Degradability:	Not available
Bioaccumulative Potential:	Not available
Mobility in Soil:	Not available
PBT and vPvB Assessment:	Not available
Other Adverse Effects:	May cause long term adverse effects in the aquatic environment.

13 DISPOSAL CONSIDERATIONS

Waste 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.
Product Containers:	Do not re-use empty containers.

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):	Not regulated

15 REGULATORY INFORMATION

TSCA Inventory Status:	All components listed.
DSCL (EEC):	This product is not classified according to the EU regulations. Not applicable.
WHMIS (Canada):	Not controlled under WHMIS (Canada)

16 OTHER INFORMATION

Revision Date:	02-10-2017
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.