

VITAMIN A PALMITATE 1M/IU – SAFETY DATA SHEET
SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING
PRODUCT IDENTIFIER

Product name (as labelled)	Vitamin A Palmitate 1M/IU
Synonyms	retinol palmitate, retinol, hexadecanoate, Vitamin A palmitate

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Registered distributor company name	Pure Ingredients Ltd
Address	626A Rosebank Road, Avondale 1026
Telephone	+649 8135619
Website	www.pureingredients.co.nz
Email	compliance@pureingredients.co.nz

EMERGENCY TELEPHONE NUMBER

CHEMCALL	0800 CHEMCALL / 800 243 622 (24hr)
Emergency telephone numbers	111
Other emergency telephone numbers	NZ Poisons Centre 0800 POISON (0800 764 766)

SECTION 2 HAZARDS IDENTIFICATION
HSNO Hazard Classification: 6.8B

Hazardous Nature: This product is classified as hazardous under HSNO criteria.



Pictogram:

Signal Word: **WARNING**

HAZARD STATEMENT:	H361	Suspected of damaging fertility or the unborn child.
PREVENTION:	P103 P104 P201 P202 P281	Read label before use. Read safety data sheet before use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective as required.
RESPONSE:	P308+P313	IF exposed or concerned: Get medical advice/ attention.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS
Hazardous components

Chemical Name	CAS-No. EC-No.	Classification (67/548/EEC)	Concentration[%]
retinyl palmitate	79-81-2 201-228-5	Repr.Cat.2; R61 Xi; R38 R53	>= 50 - < 60
Sunflower oil	8001-21-6	R66 S24/25	>= 40%

For the full text of the R-phrases / S- phrases mentioned in this Section, see Section 16.

SECTION 4 FIRST AID MEASURES

NZ Poisons Centre 0800 POISON (0800 764 766) | NZ Emergency Services: 111

Eye Contact	Flush eyes with water as a precaution.
Skin Contact	Wash off with soap and plenty of water. Consult a physician
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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SECTION 5 FIREFIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide, dry extinguishing media, alcohol-resistant foam

Special hazards arising from the substance or mixture Carbon oxides

Precautions for fire-fighters: Wear a self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections: For disposal see section 13.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: 8-15°C

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Components with workplace control parameters. Appropriate engineering controls. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protection equipment**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN347 derived from it.

Body protection

Wear impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid, oily	Colour	Golden yellow or brownish-yellow
Odour	Characteristic, pleasant	Taste	bland, oily.
Molecular weight	524.87 g/mole	Melting Point	28.5°C
Auto-ignition temp	280°C	Flash Point	> 190°C
Specific Gravity	0.92 (Water=1)	Solubility	Soluble in diethyl ether. Insoluble in cold or hot water.

SECTION 10 STABILITY AND REACTIVITY

Stability	The product is stable
Keep Away From	Excess heat, dust generation, incompatible materials, light and air.
Incompatibilities	Reactive with oxidizing agents, metals, acids, alkalis
Polymerization	Will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

Routes of Entry	Absorb through skin. Eye contact.
Toxicity to Animals	Acute oral toxicity (LD50): 7910 mg/kg [oral, rat]. Acute oral toxicity (LD50): 6060 mg/kg [oral, mouse].
Chronic Effects on Humans	May cause damage to the following organs: liver, gastrointestinal tract and central nervous system (CNS).
Other Toxic Effects on Humans	Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic to Animals	May cause adverse reproductive effects and birth defects (teratogenic/developmental toxin) based on animal data. May affect genetic material.

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SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	Not available.
	BOD5 and COD: Not available
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic.
Special Remarks on the Products of Biodegradation	Not available.

SECTION 13 DISPOSAL CONSIDERATION

Waste must be disposed of in accordance with National and local environmental control regulations.

SECTION 14 TRANSPORT INFORMATION

ADR RID IMDG IATA

14.1 UN number

ADR	: Not dangerous goods
RID	: Not dangerous goods
IMDG	: Not dangerous goods
IATA	: Not dangerous goods

14.2 Proper shipping name

ADR	: Not dangerous goods
RID	: Not dangerous goods
IMDG	: Not dangerous goods
IATA	: Not dangerous goods

14.3 Transport hazard class

ADR	: Not dangerous goods
RID	: Not dangerous goods
IMDG	: Not dangerous goods
IATA	: Not dangerous goods

14.4 Packing group

ADR	: Not dangerous goods
RID	: Not dangerous goods
IMDG	: Not dangerous goods
IATA	: Not dangerous goods

14.5 Environmental hazards

ADR	: Not dangerous goods
RID	: Not dangerous goods
IMDG	: Not dangerous goods
IATA	: Not dangerous goods

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

SECTION 15 REGULATORY INFORMATION

HSR Approval No.: HS003614

Reference: <https://www.epa.govt.nz/database-search/approved-hazardous-substances-with-controls/view/6371>

Full text of R-phrases referred to under sections 2 and 3

R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R53	May cause long-term adverse effects in the aquatic environment.
R61	May cause harm to the unborn child.
R66	Repeated exposure may cause skin dryness or cracking.

Full text of S-phrases referred to under sections 2 and 3.

S24	Avoid contact with skin.
S25	Avoid contact with eyes.

SECTION 16 OTHER INFORMATION

The information contained in this Safety Data Sheet is obtained from current and reliable sources. Pure Ingredients Ltd provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This Safety Data Sheet summarises our best current knowledge of the health and safety hazard information of the product, but does not claim to be all inclusive. This document is intended only as a guide to the appropriate handling of this material. Version: 00 Revision Date: 29/ 05/ 2020: PIL SA163-SA032 SDS, New issue.