

Section 1: Identification

Product Name Vitamin A Palmitate (1,700,000 IU/GM)
Commercial Name Not available.
Product Use The fortification of foods,Ingredient for pharm. products,Ingredient for personal care products
Restrictions On Use Not available.
Product Code 30-3124
Company PCCA
 9901 South Wilcrest
 Houston, TX 77099
 Phone: 1-800-331-2498
 Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Reproductive toxicity Category 1B
CFR 1910.1200
Signal Word DANGER
Hazard Statement(s) May damage fertility or the unborn child.
Pictogram(s) or Symbol(s)


Precautionary Statement(s):

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If exposed or concerned: Get medical advice/attention.
Storage Store locked up.
Disposal Dispose of contents/container to an approved waste disposal plant.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Vitamin A Palmitate Liquid
% By Weight 100
CAS# 79-81-2
Molecular Weight 524.87 g/mol
Chemical Formula C36H60O2
Synonym(s) Retinol, hexadecanoate, BHT, 2, 6- di- tert- butyl- p- cresol

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
retinyl palmitate (vitamin A palmitate)	79-81-2	90-100	Not available.	ORAL (LD50):Acute: 7910mg/kg [Rat].6060 mg/kg[Mouse].

Section 4: First-Aid Measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin Contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.
Eye Contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Symptoms/Effects	
Acute	Potent pharmacologically active material. Occupational exposure to small amounts may cause physiological effects.
Delayed	Potent pharmacologically active material. Occupational exposure to small amounts may cause physiological effects.

Immediate Medical Attention

Provide general supportive measures and treat symptomatically. Treatment for Vitamin A overdose may include the following: Administer activated charcoal as a slurry or perform gastric lavage. Treat fluid loss with IV crystalloid solutions. For elevated intracranial pressure, administer mannitol or corticosteroids. Lumbar puncture with drainage of CSF may alleviate symptoms. Monitor vital signs, fluid and electrolyte status, liver function, and CNS status. Correct anemia and other hematological abnormalities. Neuroleptics may be used to control psychotic reactions. Forced diuresis, dialysis, and hemoperfusion are of no clinical benefit.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable Extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

Products of Combustion

No unusual fire or explosion hazards noted.

Firefighters Special Equipment and Precautions

Wear suitable protective equipment. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use water spray to cool unopened containers. Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental Release Measures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Ensure adequate ventilation. Methods and materials for containment and cleaning up: Absorb spillage with suitable absorbent material. For waste disposal, see section 13 of the SDS. This product is miscible in water. Absorb in vermiculite, dry sand or earth and place into containers. Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Section 7: Handling and Storage

Handling: As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Select and use containment devices and personal protective equipment based on a risk assessment of material potency and exposure potential. Storage: Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	US. ACGIH Threshold Limit Values ValueComponents FormType Butylated Hydroxytol uene (CAS 128-37-0): TWA 2 mg/m ³ Inhalable fraction and vapor. US. NIOSH: Pocket Guide to Chemical Hazards Butylated Hydroxytol uene (CAS 128-37-0): TWA 10 mg/m ³
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Engineering Controls

No open handling. For laboratory operation, use an engineered local exhaust ventilation (LEV) and/or enclosure or isolator system for procedures where aerosolization of solutions may occur (e.g., vortexing, pipetting, pumping). Control the potential for spills and leaks by securing all connections. Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.

Personal Protection

Eye/face protection: Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available. Skin protection Hand protection: Consider double gloves. Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Other: Train employees in proper gowning and degowning practices. Wear disposable lab coat, disposable sleeve covers and two pair of gloves as appropriate for the task. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Respiratory protection: Use a powered air-purifying respirator (PAPR) with HEPA filters, disposable outerware and head cover for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls. Thermal hazards: Wear appropriate thermal protective clothing, when necessary. General hygiene considerations: Pharmacological effects may be seen with occupational exposure. Handling practices in this SDS are recommendations for laboratory use of reference standards. Procedures for any other uses or quantities should be determined after an appropriate assessment.

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Section 9: Physical and Chemical Properties

Appearance	yellow liquid. (Oily liquid.)		
Odor	Faint odor		
Odor Threshold	Not available.		
Melting Point	78.8 - 84.2 °F (26 - 29 °C)	pH	Not available.
Freezing Point	Not available.	Vapor Pressure	Not available
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available	Evaporation Rate	Not available.
Flash Point	Not available	Autoignition temperature	Not available
Flammability	Not available	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	Not available		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical Stability	Material is stable under normal conditions
Hazardous Polymerization	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	Contact with incompatible materials.
Incompatible Materials	Not available
Hazardous Decomposition Products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

Section 11: Toxicological Information**RTECS** VH6860000**Acute Toxicity**

Retinyl Palmitate: Oral LD50 Mouse 6060 mg/kg (retinyl palmitate), Rat 7910 mg/kg (retinyl palmitate) Butylated Hydroxytoluene (CAS 128-37-0): Dermal Acute LD50 Rat > 2000 mg/kg Oral LD50 Rat 1700 - 10000 mg/kg

Skin Corrosion/Irritation

Causes skin irritation

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Not available

Germ Cell Mutagenicity

Not available.

Carcinogenicity

Not available

Reproductive Toxicity

May damage fertility or the unborn child. Retinoids have caused fetal harm resulting in craniofacial, cardiovascular, and central nervous system defects.

Routes of Entry

Skin.

Symptoms Related to Exposure

Dizziness. Drowsiness. Irritability. Confusion. Headache. Sore mouth or tongue. Bleeding, tender, or swollen gums. Peeling skin. Gastrointestinal disturbances.

Potential Health Effects

Not available.

Target Organ(s)

Not available.

Section 12: Ecological Information**Ecotoxicity**

Butylated Hydroxytoluene (CAS 128-37-0) Acute Other EC50 Pseudokirchnerella subcapitata > 0.24 mg/l, 72 hours Aquatic Acute Crustacea EC50 Daphnia magna 0.84 mg/l, 48 hours Fish LC50 Medaka, high-eyes (Oryzias latipes) 1.1 mg/l, 96 hours

Persistence and Degradability

Not available.

Bioaccumulative Potential

Octanol/water partition coefficient log Kow Butylated Hydroxytoluene 4.17, 5.1

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Disposal of Container

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information**Regulations**

US federal regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated. Superfund Amendments and Reauthorization Act of 1986 (SARA) Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Hazard categories SARA 302 Extremely hazardous substance Not listed. Yes SARA 311/312 Hazardous chemical SARA 313 (TRI reporting) Not regulated. Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Not regulated. Safe Drinking Water Act (SDWA) California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Other

WHMIS Not controlled under WHMIS (Canada). (Canada); DSCL (EEC) This product is not classified according to the EU regulations.; Gloves.; Lab coat.; Dust respirator. Be sure to use an approved/certified respirator or equivalent.; Safety glasses.



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Section 16: Other Information

The information in this safety data sheet is based on current scientific knowledge. It should not be taken as expressing or implying any warranty concerning product characteristics.