

## SAFETY DATA SHEET

### *Section 1 - Identification of Substance or Mixture and Company*

*Product identify:*

*Product name:* Vitamin A palmitate

*Synonyms:*

*Catalog number:* PI-15424

*Relevant identified uses of the substance or mixture and uses advised against*

*Identified uses:* Laboratory chemicals, Manufacture of substances

*Details of the supplier of the safety data sheet*

*Company identification:* PI Chemicals Ltd.  
633 Eshan Road,  
Pudong New Area, Shanghai China, 201203

*Telephone number:* +86-21-58953700

*Fax number:* +86-21-58953701

*E-mail address:* [info@pipharm.com](mailto:info@pipharm.com)

*Emergency telephone number*

*Emergency number:* +86-21-58953706

### *Section 2 - Hazards Identification*

*Classification of the substance or mixture:*

*Regulation (EC) No 1272/2008*

Reproductive toxicity Category 1B

Chronic aquatic toxicity Category 4

*Label elements*

*Classification according to (EC) No 1272/2008*



*Signal word:* Danger

*Hazard statement(s):*

H360D: May damage the unborn child.

H413: May cause long lasting harmful effects to aquatic life

*Precautionary statement(s)*

P201: Obtain special instructions before use.

P308 + P313: IF exposed or concerned: Get medical advice/ attention.

Accroding to EU Directive 67/548/EEC or 1999/45/EC.

Symbol(s): Xn Harmful

Risk phrases:

R61: May cause harm to the unborn child.

R53: May cause long-term adverse effects in the aquatic environment.

Safety phrases:

S53: Avoid exposure - obtain special instruction before use.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible) .

HMIS classification:

Health hazard: 0

Chronic health hazard: \*

Flammability: 1

Physical hazards 0

NFPA rating:

Health hazard: 0

Fire: 1

Reactivity hazard: 0

### Section 3: Composition & Information on Ingredients

Molecular formula:  $C_{36}H_{60}O_2$

Molecular weight: 524.86

Component	Concentration
CAS Number: 79-81-2	USP
EC Number: 201-228-5	

### Section 4 - First Aid Measures

Eye: Flush eyes with plenty of water for at least 15 minutes. Get medical aid if symptoms appear.

Skin: Wash skin with plenty of water at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops and persists.

Ingestion: Wash mouth out with water. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical aid.

### Section 5 – Fire-Fighting Measures

*Extinguishing media:* Use water spray, dry chemical, carbon dioxide, or appropriate foam.

*Special hazards arising from the substance or mixture:* Carbon oxides

*Advice for firefighters:* Wear a self-contained breathing apparatus for fire fighting if necessary

## ***Section 6 - Accidental Release Measures***

*Personal precautions, protective equipment and emergency procedures:*

Use proper personal protective equipment as indicated in Section 8.

*Environmental precautions:* Prevent further spillage or leakage when safe and capable

*Methods and materials for containment and cleaning up:*

Vacuum or sweep up material and keep in a suitable closed container for disposal. Do not flush with water.

## ***Section 7 - Handling and Storage***

*Precautions for safe handling:*

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin, eyes and clothes. Avoid inhalation of vapors and spray mist.

*Conditions for safe storage, including any incompatibilities:*

Store in a cool, dry place. Keep container tightly closed. Store at 2-8 °C.

## ***Section 8 - Exposure Controls/Personal Protection***

*Control parameters:*

Contains no materials with occupational exposure limits.

*Exposure controls:*

Ensure well ventilation, good industrial hygiene and safety practice.

*Personal protective equipment*

*Eye/Face protection:*

Wear appropriate protective eyeglasses under the standards such as EN166(EU) or type ABEK(EN14387).

*Skin/Body protection:*

Wear appropriate protective gloves which have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it to prevent skin exposure. Dispose of contaminated gloves in accordance with applicable laws. Wash and dry hands.

Wear appropriate protective clothing to prevent skin exposure.

*Respiratory protection:*

Use an approved respirator and components under appropriate government standards such as NIOSH(US) or CEN(EU) if exposure limits are exceeded or if irritation or other symptoms are experienced.

## ***Section 9- Physical and Chemical Properties***

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<i>Physical state:</i>	Liquid
<i>Odour:</i>	Odorless
<i>Melting point/freezing point:</i>	Melting point/freezing point:ca.26 °C (79 °F)
<i>Initial boiling point and boiling range:</i>	ca.100 °C (212 °F)
<i>Flash point:</i>	194 °C (381 °F)-closed cup
<i>Evaporation rate:</i>	No data available
<i>Flammability(solid, gas):</i>	No data available
<i>Upper/lower flammability or explosive limits:</i>	No data available
<i>Vapour pressure:</i>	No data available
<i>Vapour density:</i>	No data available
<i>Relative density:</i>	921.1 kg/m <sup>3</sup> at 20 °C
<i>Solubility:</i>	0.001 g/l at 25 °C (77 °F)
<i>Partition coefficient: n-octanol/water:</i>	No data available
<i>Auto-ignition temperature:</i>	No data available
<i>Decomposition temperature:</i>	No data available
<i>Viscosity:</i>	No data available

### ***Section 10-Stability and Reactivity***

<i>Reactivity:</i>	No data available
<i>Chemical stability:</i>	Stable under recommended temperatures and pressures.
<i>Possibility of hazardous reactions:</i>	No data available
<i>Conditions to avoid:</i>	No data available
<i>Incompatible materials:</i>	Strong oxidizing agents
<i>Hazard Decomposition products:</i>	Carbon oxides

### ***Section 11 - Toxicological Information***

<i>Acute toxicity:</i>	
Component: Vitamin A palmitate	
LD50 Oral-rat-male and female-> 2,000 mg/kg	
<i>Skin corrosion/irritation:</i>	Skin-rabbit-No skin irritation-4 h-OECD Test Guideline 404
<i>Serious eye damage/eye irritation:</i>	Eyes-rabbit-No eye irritation-72 h-OECD Test Guideline 405
<i>Respiratory or skin sensitization:</i>	Maximisation Test-guinea pig-Does not cause skin sensitisation.-OECD Test Guideline 406.
<i>Germ cell mutagenicity:</i>	
Genotoxicity in vitro-Ames test-S. typhimurium-with and without metabolic activation-negative	
Genotoxicity in vivo-mouse-male-Oral-negative	
<i>Carcinogenicity:</i>	
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.	
<i>Reproductive toxicity:</i>	No data available
<i>Specific target organ toxicity(STOT)-single exposure:</i>	No data available

*Specific target organ toxicity (STOT)-repeated exposure:* No data available

*Aspiration hazard:* No data available

*Additional information:* RTECS#: not available

## ***Section 12 – Ecological Information***

*Toxicity:* No data available

*Component:* Vitamin A palmitate

*Toxicity to fish:*

Static test LC50-Leuciscus idus (Golden orfe)-> 10,000 mg/l-96 h Method:DIN 38412

*Toxicity to daphnia and other aquatic invertebrates:*

Static test EC50-Daphnia magna (Water flea)-> 100 mg/l-48 h Method:OECD Test Guideline 202

*Toxicity to algae:*

Static test EC50-Desmodesmus subspicatus (green algae)-152.94 mg/l-72 h

*Persistence and degradability:* aerobic

*Result:* 50-60 %-Partially biodegradable.

*Bioaccumulative potential:*

*Component:* Vitamin A palmitate Log Pow: 10.3

*Mobility in soil:* No data available

*Results of PBT and vPvB assessment:* No data available

*Other adverse effects:* No data available

## ***Section 13 - Disposal Consideration***

*Waste treatment methods*

*Product:* Dispose of in accordance with federal, state and local environmental regulations

*Contaminated packaging:* Dispose of as unused product

## ***Section 14 - Transport Information***

*IATA*

Not dangerous goods

*IMDG*

Not dangerous goods

*RID/ADR*

Not dangerous goods

*DOT(US)*

Not dangerous goods

## ***Section 15 - Regulatory Information***

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*Safety, health and environmental regulations/legislation specific for the substance or mixture*

No data available

*Chemical safety assessment:*No data available

### ***Section 16 – Other Information***

*SDS creation date:* Sep 19, 2013

*Update:* Sep 24, 2013

#### ***Disclaimer:***

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