

**AERCHEM INC.**  
**320 North Walnut St.**  
**Bloomington, IN 47404**

**Tel: 812.334.9996**

**Fax: 812.334.1960**

**Emergency: 800.424.9300**

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**Effective Date:** 9/13/96

**Product Name:** Vitamin A Palmitate (V40)

**Chemical Formula:** Retinoids

**Cas No.:** N/A

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**Hazardous Ingredients:**

N/A

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**Physical Data:**

Melting point (range) Approx.:	N/A
Boiling point:	N/A
Evaporation Rate (Butyl Acetate=1)	N/A
Solubility in water:	Practically insoluble
Appearance and Odor:	Light yellow powder, characteristic odor
Vapor pressure (mm Hg):	N/A
Vapor density (air =1):	N/A

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**Fire and Explosion Information:**

Flash point:	N/A
Flammable Limits:	N/A
Extinguishing media to be recommended:	Water mist, CO2, dry chemicals, or foam media
Fire Fighting Procedures:	Must wear approved self-contained breathing apparatus.
Special fire and explosions precautions:	None, but as with any dust if mixed with air in the proper proportions, it can be explosive.

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**Reactivity Data:** Stable in an unopened container

**Hazardous Decomposition:** None known

**Hazardous Polymerization:** Will not occur

**Incompatibilities:** None known

**Oxidizer properties:** Not an oxidizer

**Corrosive properties:** Not corrosive

**Other reactivity data:** None known

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**Leak/Spill Information:**

Steps to be Taken in Case Material is Released or Spilled:

Flush area with water after disposal. Spills should be contained and placed in a suitable container for disposal.

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**Disposal Information:**

Dispose in normal solid waste disposal in accordance with local, state and federal regulations.

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**Health Hazard Information:**

**Effects of Overexposure:**

Toxicology Test Data: Rat. oral LD50-14.4 X 1000000 IU/kg

Mouse, oral, 1.11 x 10000000 IU/kg  
Both above TOX test rating not found

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**Acute Overexposure Effects:** Prolonged contact with eyes and skin may result in irritation, there are no other known acute effects associated with this material. Ingestion of excessive amounts of Vitamin A may result in headaches, nausea, blurred vision, and decreased appetite.

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**Chronic Exposures:**

Chronic overexposure to vitamin A is associated with low red blood count, Joint/ bone pain, fatigue, depression, skin rash, and liver and spleen abnormalities. Some cases of hypervitaminosis A, have resulted in bone changes, and CNS effects. Animal studies have shown that vitamin A is a teratogenic in several species.

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**B. First Aid:**

**Inhalation:** Remove to fresh air. May cause irritation. Aid in breathing if necessary. If irritation persists, seek medical attention.

**Skin Contact:** Wash with large amounts of soap and water. Remove and launder contaminated clothing before reuse. May cause irritation. If irritation persists, seek medical attention.

**Eye Contact:** Flush with water or emergency eyewash for 15 minutes. May cause irritation. If irritation persists, seek medical attention.

**Ingestion:** If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

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**Occupational Control Measures:**

**Ventilation Systems:** Local Exhaust

**Personal Respirators:** OSHA approved nuisance mask

**Skin Protection:** Work gloves and protective clothing

**Eye Protection:** OSHA approved Safety glasses

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**Special Precautions:**

Store in a cool dry place. Keep containers closed when not in use. Store in light, impervious containers.