

Section 1. Product and Company Identification

**Product Name** Vitamin A Acetate  
**CAS Number** 127-47-9

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
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EMERGENCY RESPONSE NUMBER  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**  
**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Reproductive toxicity (Category 1B), H360  
Chronic aquatic toxicity (Category 4), H413

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard Statements**

H360 May damage fertility or the unborn child.  
H413 May cause long lasting harmful effects to aquatic life.

**Precautionary Statements**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents/container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** None



Section 3. Composition / Information on Ingredients

**Common Name** Vitamin A Acetate  
**Synonym(s)** Retinyl Acetate  
**Formula**  $C_{22}H_{32}O_2$   
**CAS Number** 127-47-9

COMPONENT	CAS NUMBER	CONCENTRATION
Vitamin A Acetate	127-47-9	90 - 100%

Section 4. First Aid Measures

**Description of first aid measures**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye contact:** Flush eyes with water as a precaution.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** No data available

Section 5. Firefighting Measures

**Extinguishing media**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** No data available

Section 6. Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.



**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. 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 formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place.  
Recommended storage temperature: -20°C

#### Section 8. Exposure Controls / Personal Protection

##### Control parameters

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

##### Exposure controls

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### Personal protective equipment

**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 EN 166(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.

**Body Protection:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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).



**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9. Physical and Chemical Properties

**Appearance:** Crystalline  
**Color:** Yellow, dark yellow  
**Odor:** No data available  
**Odor Threshold:** No data available  
**pH:** No data available  
**Melting point/freezing point:** 57 - 58°C (135 - 136°F)  
**Melting point/range:** 58°C (136°F) - lit.  
**Initial boiling point and boiling range:** No data available  
**Flash point:** No data available  
**Evaporation rate:** No data available  
**Flammability (solid, gas):** No data available  
**Upper/lower flammability or explosive limits:** No data available  
**Vapor pressure:** < 0.0001 hPa (< 0.0001 mmHg) at 20°C (68°F)  
**Vapor density:** No data available  
**Relative density:** 981.7 g/l at 25°C (77°F)  
**Water solubility:** 0.00001 g/l at 20°C (68°F) - OECD Test Guideline 105  
**Partition coefficient (n-Octanol/water):** log Pow: 9.4 at 25°C (77°F)  
**Auto-ignition temperature:** 395°C (743°F) at 1,013.25 hPa (760.00 mmHg)  
**Decomposition temperature:** No data available  
**Viscosity:** No data available  
**Explosive properties:** No data available  
**Oxidizing properties:** No data available

**Other safety information:** No data available

Section 10. Stability and Reactivity

**Reactivity:** No data available  
**Chemical stability:** Stable under recommended storage conditions.  
**Possibility of hazardous reactions:** No data available  
**Conditions to avoid:** No data available  
**Incompatible materials:** Strong oxidizing agents

**Hazardous decomposition products**

**Other decomposition products:** No data available  
In the event of fire: see section 5



Section 11. Toxicological Information

**Information on toxicological effects**

**Acute toxicity**

**LD50 Oral - rat - male and female:** > 2,000 mg/kg

(OECD Test Guideline 401)

**Inhalation:** No data available

**Dermal:** No data available

**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation**

Eyes - rabbit

Result: No eye irritation

**Respiratory or skin sensitization**

Maximization Test - guinea pig

Result: Does not cause skin sensitization.

(OECD Test Guideline 406)

**Germ cell mutagenicity**

Ames test

S. typhimurium

Result: negative

**Carcinogenicity**

Carcinogenicity - rat - Oral

Tumorigenic: Neoplastic by RTECS criteria. Skin and Appendages: Other: Tumors.

Carcinogenicity - rat - Oral

Tumorigenic: Neoplastic by RTECS criteria. Endocrine: Thyroid tumors. Skin and Appendages: Other: Tumors.

**IARC:** No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

Damage to fetus possible

Reproductive toxicity - rat - Oral

Effects on Newborn: Live birth index (# fetuses per litter; measured after birth). Effects on Newborn:

Viability index

(e.g., # alive at day 4 per # born alive). Effects on Newborn: Growth statistics (e.g., reduced weight

gain).

Reproductive toxicity - rat - Oral

Presumed human reproductive toxicant

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Other effects to embryo.

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Respiratory system.

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Cytological changes (including somatic cell genetic material).

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Eye, ear.

Specific Developmental Abnormalities: Craniofacial (including nose and tongue).

**Specific target organ toxicity - single exposure:** No data available

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

**Aspiration hazard:** No data available

#### **Additional Information**

**RTECS:** VH6825000

Acute vitamin A intoxication may occur with exposure to high concentrations., Symptoms and signs of poisoning are:, sedation, Irritability, Headache, Skin disorders, Gastrointestinal disturbance, Congenital abnormalities may occur after exposure to high concentrations during pregnancy.

#### Section 12. Ecological Information

##### **Toxicity**

##### **Toxicity to fish**

LC50 - Oncorhynchus mykiss (rainbow trout) - 1.37 mg/l - 96 h  
(OECD Test Guideline 203)

##### **Toxicity to daphnia and other aquatic invertebrates**

Immobilization EC50 - Daphnia magna (Water flea): 46 mg/l (48 h)  
(OECD Test Guideline 202)

##### **Toxicity to algae**

Growth inhibition EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus): 0.103 mg/l (72h)  
(OECD Test Guideline 201)

##### **Toxicity to bacteria**

Respiration inhibition EC50 - Sludge Treatment: > 1,000 mg/l (180 min)  
(OECD Test Guideline 209)

##### **Persistence and degradability**

Biodegradability aerobic - Exposure time 28 d  
Result: 18.5% - Not readily biodegradable.  
(OECD Test Guideline 301B)



**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

Section 15. Regulatory Information

**SARA 302 Components**

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Chronic Health Hazard

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components**

Retinyl acetate (CAS-No. 127-47-9)

**New Jersey Right to Know Components**

Retinyl acetate (CAS-No. 127-47-9)

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**HMIS Rating**

**Health:** 1\*

**Flammability:** 0

**Reactivity:** 0



**NFPA Rating**

**Health:** 0

**Flammability:** 0

**Reactivity:** 0

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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