

Section 1: Identification

Product Name Vitamin A Acetate Beadlets (>= 325,000 IU/G)
Commercial Name Myvak, Myvax, Crystalets
Product Use Not available.
Restrictions On Use Not available.
Product Code 30-4291
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: Skin irritation: Category 2 Eye irritation: Category 2A Reproductive toxicity: Category 1B
CFR 1910.1200
Signal Word DANGER
Hazard Statement(s) May form combustible dust concentrations in air. Causes skin irritation. Causes serious eye irritation. May damage fertility or the unborn child.

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P332 + P313 If skin irritation occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.
Storage P405 Store locked up.
Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

Section 3: Composition/Information on Ingredients

Substance/Mixture Mixture
Components Vitamin A acetate, Starch sodium octenyl succinate, Gum arabic, Sucrose
% By Weight 11.2-17.2, 55.9-60, 9.3-10 and 17.6-18.8
CAS# 127-47-9, 66829-29-6
Molecular Weight 328.5 g/mole
Chemical Formula C22-H32-O2
Synonym(s) Retinyl acetate; all-trans-Retinyl acetate; Trans-Vitamin A Acetate; Vitamin A alcohol acetate; Retinol, acetate

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Vitamin A acetate	127-47-9	11.2-17.2		
Starch sodium octenyl succinate	66829-29-6	55.9-60		
Gum arabic	9000-01-5	9.3-10		
Sucrose	57-50-1	17.6-18.8		

Section 4: First-Aid Measures

Inhalation	Move to fresh air. Consult a physician after significant exposure.
Skin Contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
Eye Contact	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
Ingestion	Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.
Symptoms/Effects	
Acute	Headache Irritability Tiredness Drowsiness Nausea Vomiting Signs of increased intracranial pressure Generalized desquamation of the skin (after ca. 24 hours) Skin irritation
Delayed	Headache Irritability Tiredness Drowsiness Nausea Vomiting Signs of increased intracranial pressure Generalized desquamation of the skin (after ca. 24 hours) Skin irritation
Immediate Medical Attention	Treat symptomatically.

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

Water Foam

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Not available

Firefighters Special Equipment and Precautions

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Consider dust explosion hazard. In the event of fire, wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust. Environmental precautions: Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Advice on protection against fire and explosion: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Take precautionary measures against static discharges. Advice on safe handling: Avoid formation of respirable particles. Avoid exposure - obtain special instructions before use. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations. Smoking, eating and drinking should be prohibited in the application area. Conditions for safe storage: Protect from humidity. Keep container tightly closed and dry. To maintain product quality, do not store in heat or direct sunlight.

Section 8: Exposure Controls/Personal Protection

Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Exposure Limits

Component: starch CAS-No.: 9005-25-8 Value type (Form of exposure): TWA Control parameters / Permissible concentration : 10 mg/m³ Basis: ACGIH Component: starch CAS-No.: 9005-25-8 Value type (Form of exposure): TWA (Respirable) Control parameters / Permissible concentration : 5 mg/m³ Basis: NIOSH REL Component: starch CAS-No.: 9005-25-8 Value type (Form of exposure): TWA (total) Control parameters / Permissible concentration : 10 mg/m³ Basis: NIOSH REL Component: starch CAS-No.:9005-25-8 Value type (Form of exposure): TWA (total dust) Control parameters / Permissible concentration : 15 mg/m³ Basis: OSHA Z-1 Component: starch CAS-No.: 9005-25-8 Value type (Form of exposure): TWA (respirable fraction) Control parameters / Permissible concentration : 5 mg/m³ Basis: OSHA Z-1 Component: retinyl acetate CAS-No.: 127-47-9 Value type (Form of exposure): TWA Control parameters / Permissible concentration : 0.06 mg/m³ Basis: DSM Internal Limit

Engineering Controls

Not available.

Personal Protection

Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter.
Hand protection: Remarks : Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves. Glove material: for example nitrile rubber
Eye protection: Safety glasses with side-shields
Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures: When using do not eat or drink. When using do not smoke. Avoid contact with skin, eyes and clothing.

Section 9: Physical and Chemical Properties

Appearance	light yellow free flowing particles		
Odor	Not available		
Odor Threshold	Not available.		
Melting Point	Not available	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	May form combustible dust c	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	dispersible in water.		
Other	Thermal decomposition : Decomposes on heating. Potential for exothermic hazard Combustibility index for deposited dust: 3 (25 °C) ; 3 (100 °C) Dust explosion properties : KSt value: 171 bar·m/s (Milled sample, Median value of the tested sample 0.064 mm; ISO 6184) Dust explosion class : St1 (Milled sample, Median value of the tested sample 0.064 mm; ISO 6184) Maximum explosion overpressure: 7.8 bar (Milled sample, Median value of the tested sample 0.064 mm; ISO 6184) Minimum ignition energy : 10 - 30 mJ (Milled sample, Median value of the tested sample 0.054 mm, Loss on drying 4.1 %, EN 13821) The Minimum ignition energy (MIE) of a dust/air mix depends on the particle size the water content and the temperature of the dust. The finer and the dryer the dust the lower the MIE. : General remark: The indicated dust explosion characteristics are only valid for this product and are sensitive to the sample's parameters. Powder volume resistivity : ca. 7E+11 Ohmm (Product sample)		

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Stable under recommended storage conditions.
Hazardous Polymerization	Dust may form explosive mixture in air.
Conditions to Avoid	Heat.
Incompatible Materials	Strong acids and strong bases Strong oxidizing agents
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Section 11: Toxicological Information

RTECS VH6825000

Acute Toxicity

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg (Calculation method)

Skin Corrosion/Irritation

May cause skin irritation and/or dermatitis.

Serious Eye Damage/Irritation

May irritate eyes

Respiratory or Skin Sensitization

Does not cause skin sensitisation.

Germ Cell Mutagenicity

not mutagenic, not genotoxic (Various test systems)

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Carcinogenicity

No indication for carcinogenicity known.

Reproductive Toxicity

Not available.

Routes of Entry

Skin. Eye.

Symptoms Related to Exposure

Skin contact retinyl acetate : Skin contact may provoke the following symptoms: Local irritation. Ingestion retinyl acetate : Acute overdose produces the following symptoms: Headache, Irritability, Tiredness, Drowsiness, Nausea, Vomiting, Signs of increased intracranial pressure, Generalized desquamation of the skin (after ca. 24 hours)

Potential Health Effects

May cause irritation of respiratory tract.

Target Organ(s) Not available.**Section 12: Ecological Information****Ecotoxicity**

Not available

Persistence and Degradability

Not readily biodegradable.

Bioaccumulative Potential

Not available.

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

User must determine if any wastes generated exhibit hazardous characteristics as per 40 CFR Part 261 or other national / local legislation. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Offer surplus and non-recyclable solutions to a licensed disposal company.

Disposal of Container

Dispose of as unused product Do not re-use empty containers.

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**

EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity This material does not contain any components with a CERCLA RQ. SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ. SARA 302 Extremely Hazardous Substances Threshold Planning Quantity This material does not contain any components with a section 302 EHS TPQ. SARA 311/312 Hazards : Combustible dust Skin corrosion or irritation Serious eye damage or eye irritation Reproductive toxicity 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. Clean Air Act This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489). Clean Water Act This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3. This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 US State Regulations Massachusetts Right To Know starch 9005-25-8 Pennsylvania Right To Know Syrups, corn, dehydrated 68131-37-3 starch 9005-25-8 gum arabic 9000-01-5 retinyl acetate 127-47-9 Maine Chemicals of High Concern Product does not contain any listed chemicals Vermont Chemicals of High Concern Product does not contain any listed chemicals Washington Chemicals of High Concern Product does not contain any listed chemicals California Prop. 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Other

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Section 16: Other Information

Not available.