



COMPOSITION SHEET

VITAMIN A ACETATE POWDER 325,000 IU/G FOOD GRADE CWD

Revision date : 2019/01/02

Name of the Product: Vitamin A Acetate Powder 325,000IU/g Food Grade

Product composition list as below:

ITEMS	ASSAY	SOURCE
1. Vitamin A Acetate Crystal	13%	Synthetic
2. Corn Oil	2~10%	Corn
3. Tocopherol	0.5~2%	Soybean
4. Arabic Gum	30~40%	Arabic resin
5. Sucrose	5~15%	Sugarcane
6. Maltodextrin	30~40%	Corn
7. Sodium Ascorbate	0.5~1%	Synthetic
8. Silicon Dioxide	0~1%	Chemical Reaction

We confirm this is a exact replica of documentation received from the manufacturer.



ALLERGEN INFORMATION

Revision date: 2022/01/04

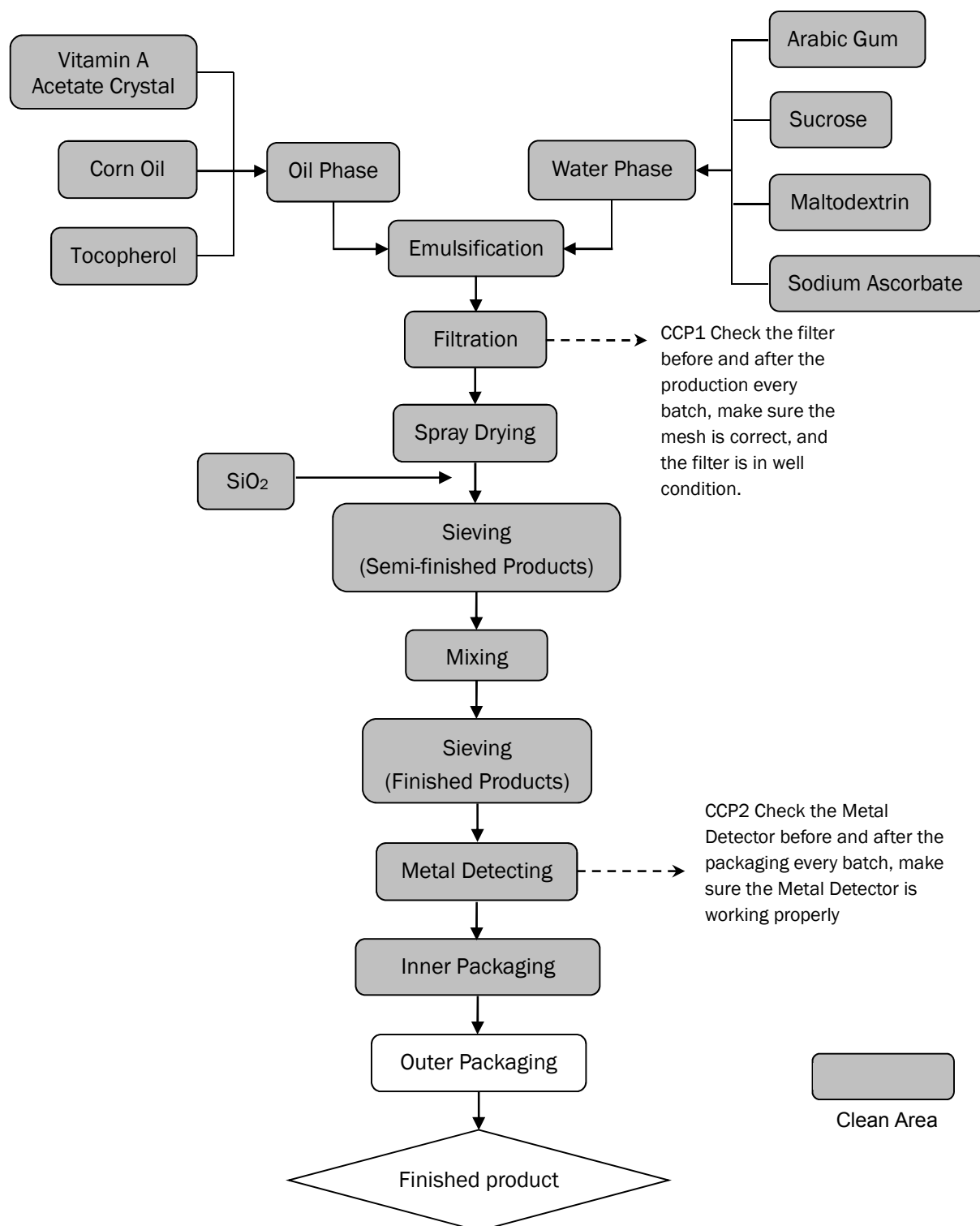
PRODUCT: Vitamin A Acetate Powder CWD Food Grade	Present	Absent	Comments
Type of Allergen Regulation (EU) No 1169/2011, ANNEX II			
1. Cereals containing gluten, namely: wheat, rye, barley, oats, spelt, kamut or their hybridised strains, and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Crustaceans and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Eggs and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Fish and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Peanuts and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Soybeans and products thereof (except: natural mixed tocopherols (E306), natural D-alpha tocopherol, natural D-alpha tocopherol acetate, and natural D-alpha tocopherol succinate from soybean sources)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Milk and products thereof (including lactose)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Nuts, namely: almonds (<i>Amygdalus communis</i> L.), hazelnuts (<i>Corylus avellana</i>), walnuts (<i>Juglans regia</i>), cashews (<i>Anacardium occidentale</i>), pecan nuts (<i>Carya illinoensis</i> (Wangenh.) K. Koch), Brazil nuts (<i>Bertholletia excelsa</i>), pistachio nuts (<i>Pistacia vera</i>), macadamia or Queensland nuts (<i>Macadamia ternifolia</i>), and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Celery and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Mustard and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Sesame seeds and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre in terms of the total SO ₂ which are to be calculated for products as proposed ready for consumption or as reconstituted according to the instructions of the manufacturers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13. Lupin and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Molluscs and products thereof	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Type of Allergen FSIS Compliance Guidelines, Appendix 6			
1. Wheat	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Crustacean Shellfish	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Eggs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Fish	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Peanuts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Milk	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Tree Nuts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Soybeans	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



FLOW CHART

VITAMIN A ACETATE POWDER 325,000IU/G FOOD GRADE CWD

Revision date : 2022/01/02





NON-GMO DECLARATION

Date: February 16, 2022

To whom it may concern,

We hereby advise that our product **Vitamin A Acetate Powder Food Grade CWD** is NON-GMO.



Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Contact information

Ekokoza s.r.o.

Fryčovice 297, 73945, Fryčovice

IČ: 07508247, eshop@ekokoza.cz

Nouzové telefonní číslo: +420224919293 , +420224915402 (telefon 24hod/denně) Toxikologické informační středisko, Na Bojišti 1, 128 08 Praha2)

Product Name: Vitamin A Acetate

Chemical family: Not Applicable

Chemical name: Not Applicable

Section 2: Composition and Information on Ingredients

Vitamin A Acetate 325000IU/g

CAS: 127-47-9

Assay: min 99%

Section 3: Hazards Identification

Classification of the substance or mixture

Not a dangerous substance according to GHS.

This substance is not classified as dangerous according to directive 67/548/EEC. Other hazards – none

Section 4: First Aid Measures

Description of first aid measures

If inhaled If breathed in, move person into fresh air. If no breathing, give artificial respiration

In case of contact with skin Wash off with soap and plenty of water

In case of eye contact Flush eyes with water as a precaution

If swallowed Never give anything by mouth to an unconscious person.

Rinse mouth with water

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 5: Fire and Explosion Data

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 fire-fighters

Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal Protections, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas

Environmental Precautions

Do not let product enter the drains

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling:

Normal measures for preventative fire protection.

Condition for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: Normal warehouse temperature

Section 8: Exposure Controls/Personal Protection Engineering Controls:

Control Parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values

Exposure Controls

Appropriate engineering controls

General industrial hygienic practice

Personal protective equipment

Eye/face protection

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 to avoid skin contact.

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

Respiratory protection not required

Section 9: Physical and Chemical Properties Physical state and appearance: Solid. (Solid powder)

Physical state and appearance: Solid. (Powdered solid.)

Odor: a little

Taste: Not available.

Molecular Weight: Not available.

Colour: Off White to light yellow

pH (1% soln/water): Not available

Boiling Point: Not available.

Melting Point: 73-78°C

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.
Ionicity (in Water): Not available.
Dispersion Properties: Not available.
Solubility: insoluble water



Section 10: Stability and Reactivity Data

Reactivity

No data available

Chemical stability

No data available

Possibility of hazardous reactions

No data available

Conditions to avoid

Air Light

Incompatible materials

Strong oxidising agents

Hazardous decomposition products

Other decomposition products – no data available.

Section 11: Toxicological Information Acute inhalation: Not available

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Carcinogenicity

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. Reproductive toxicity

Reproductive toxicity – rat – Oral

Effects on fertility: other measures of fertility

Specific target organ toxicity – single exposure

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation May cause respiratory tract irritation

Ingestion May be harmful if swallowed

Skin May cause skin irritation

Eyes May cause eye irritation

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity 5 No data available

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Results of PBT and vPvB assessment No data available

Other adverse effects No data available
RCRA P-Series: None listed.
RCRA U-Series: None listed.



Section 13: Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part
Additionally, waste generators must consult state and local hazardous waste regulations.
Ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14: Transport Information

UN Number
ADR/RID:- IMDG:- IATA:-
UN Proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
Transport hazard class(es)
ADR/RID: - IMDG:- IATA:-
Packaging group
ADR/RID:- IMDG:- IATA:-
Environmental hazards
ADR/RID: No IMDG Marine Pollutant: No IATA: No

Section 15: Other Regulatory Information

This datasheet complies with the requirements of Regulation (EC) No. 1907/2006
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

References: Not available.
Other Special Considerations: Not available.
The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Ekokoza s.r.o. Corporation be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Ekokoza s.r.o. Corporation has been advised of the possibility of such damages. party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Herbsino.com has been advised of the possibility of such damages.



Materials Safety Data Sheet

according to Regulation (EU) No 453/2010

VITAMIN A ACETATE POWDER 325,000 IU/G FOOD GRADE CWD

Revision Date: 04.01.2022

Section 1: Product and Company Identification

1.1. Product identifier

Vitamin A Acetate Powder 325,000IU/g Food Grade CWD

1.2. Relevant identified uses of the product

for exclusive usage in food additive

1.3. Details of the supplier of the safety data sheet

Company Ekokoza s.r.o.

Information: Fryčovice 297, 73945, Fryčovice

IČ: 07508247, eshop@ekokoza.cz

1.4. Emergency telephone number: Nouzové telefonní

číslo: +420224919293 , +420224915402 (telefon 24hod/
denně) Toxikologické informační středisko, Na Bojišti 1, 128 08

Section 2: Hazard Identification

2.1. Classification of the substance or mixture

Classification according to Directive 2006/121/EC
or 1999/45/EC

Indications of danger: T - Toxic, Xi - Irritant

R phrases:

May cause harm to the unborn child.

Irritating to skin.

Classification according to Regulation (EC) No.
1272/2008 [CLP]

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Reproductive toxicity: Repr. 1B

Hazardous to the aquatic environment: Aquatic
Chronic 4

Hazard Statements:

Causes skin irritation.

May damage the unborn child.

May cause long lasting harmful effects to aquatic life.

2.2. Label elements

Hazardous components which must be listed on
the label

Vitamin A Acetate

Signal word:

Danger

Pictograms:

GHS07-GHS08



Hazard statements

H315

Causes skin irritation

H360D

May damage the unborn child

H413

May cause long lasting harmful
effects to aquatic life

Precautionary statements

P201

Obtain special instructions before
use.

P280

Wear suitable gloves and eye/face
protection.

P302+P352

IF ON SKIN: Wash with plenty of
water.

P308+P313

IF exposed or concerned: Get
medical advice/attention.

P501

Dispose of this material and its
container to hazardous or special
waste collection point.

Section 3: Composition and Information on

Ingredients

3.2. Mixtures

Composition

Name	Content	CAS No.
Vitamin A Acetate Crystal	About 13.0%	127-47-9
Corn Oil	About 3.0%	8001-30-7
Tocopherol	About 1.0%	59-02-9
Arabic Gum	About 33.0%	97659-43-3
Sucrose	About 15.0%	57-50-1
Maltodextrin	About 33.5%	9050-36-6
Sodium Ascorbate	About 0.5%	134-03-2
Silicon Dioxide	About 1.0%	7631-86-9

Hazardous components

Chemical name	Vitamin A Acetate (Retinol Acetate)
CAS No	127-47-9
EC No	204-844-2
Classification according to Directive 2006/121/EC	Repr. Cat. 1, Xi - Irritant R61-38
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Repr. 1B, H360D; Aquatic Chronic 4, H413; Skin Irrit. 2, H315
Quantity	10-<30%

Section 4: First Aid Measures



Materials Safety Data Sheet

according to Regulation (EU) No 453/2010

VITAMIN A ACETATE POWDER 325,000 IU/G FOOD GRADE CWD

Revision Date: 04.01.2022

4.1. Description of first aid measures

General advice

Immediately remove contaminated clothing. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). First aid personnel should pay attention to their own safety.

If inhaled

Keep patient calm, remove to fresh air, get medical attention.

On skin contact

Immediately wash thoroughly with soap and water.

On contact with eyes

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion

Rinse mouth immediately and then drink plenty of water, induce vomiting, seek medical attention.

Section 5: Firefighting measures

5.1. Fire Fighting Media and Instructions

Water spray. Foam. Extinguishing powder. Carbon dioxide (CO₂). Sand

5.2. Special hazards arising from the substance or mixture

Dust explosive. In case of fire and/or explosion do not breathe fumes.

Slightly flammable to flammable in presence of open flames and sparks, of heat.

Non-flammable in presence of shocks.

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Flammability of the product

Non-flammable, but may be combustible at high temperature.

Auto-ignition temperature

Not Available

Section 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Avoid dust formation.

Use personal protective equipment.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water.

Do not discharge into surface waters/groundwater.

Do not discharge into the subsoil/soil.

6.3. Methods for cleaning up or taking up

Avoid raising dust.

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill: Use a shovel to put the material into a convenient waste disposal container.

Section 7: Handling and Storage

7.1. Precautions for safe handling

Avoid dust formation. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2. Conditions for safe storage, including any incompatibilities

Store in light-resistant containers. Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 39°C. Preferably store between 8 to 15 °C

Temperature tolerance

Protect from temperatures above: 60 °C

Damage by exceeding the maximum temperature is not reversible.

Section 8: Exposure Controls / Personal

Protection

8.2. Exposure controls

Respiratory protection

Breathing protection if breathable aerosols/dust are formed. Particle filter Type P2 or FFP2 (medium efficiency for solid and liquid particles e.g. EN143, 149)

Hand protection

Suitable chemical resistant safety gloves (EN 374)



Materials Safety Data Sheet

according to Regulation (EU) No 453/2010

VITAMIN A ACETATE POWDER 325,000 IU/G FOOD GRADE CWD

Revision Date: 04.01.2022

Eye protection

Safety glasses with side-shields (frame goggles) (EN 166)

Skin protection

Protective clothing

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

Remove soiled or soaked clothing immediately.

Keep divorced from food and feed.

Wash hands and skin before breaks and after work.

Exposure Limits

Not available.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Fine powder
Color	Pale yellow to yellow
Odor	mild, pleasant
Molecular Weight	328.49g/mole
Bulk density	approx. 0.6 g/ml
Solubility	Easily dispersed in cold water 15°C to form a homogeneous and stable emulsion
Melting Point	63°C (145.4°F)

Section 10: Stability and Reactivity Date

10.2. Chemical stability

The product is stable. When exposed to light and heat, potency will deteriorate.

10.3 Possibility of Hazardous Reactions

Dust explosion hazard.

10.4. Conditions to avoid

Moisture, direct sunlight, heat, conditions that might generate heat.

10.5. Incompatible materials

Strong oxidizing agents. Acid, concentrated. Alkalis (alkalis), concentrated.

10.6. Hazardous Decomposition Products

No hazardous decomposition products if stored and handled as prescribed/indicated.

Section 11: Toxicological Information

11.1. Information on toxicological effects

Routes of entry

Inhalation, ingestion.

Toxicity to Animals

Acute oral toxicity (LD₅₀): >5000mg/kg [Mouse].

Chronic Effects on Humans

Not available.

Teratogenic Effects

Possible risk of harm to the unborn child.

Special Remarks on other Toxic Effects on Humans

Acute Potential Health Effects:

Skin: May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed in large amounts. May cause irritation of the digestive tract. May affect the liver, blood behavior, respiration, sense organs, metabolism, urinary system.

Inhalation: May cause respiratory tract irritation.

Mutagenic Effects

Not mutagenic.

Section 12: Ecological Information

12.1. Toxicity

Not available.

12.2. Persistence and degradability

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

The product itself and its products of degradation are not toxic.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available.

12.6. Other adverse effects

WGK Germany: 2

Section 13: Disposal Considerations

13.1. Waste treatment methods

Waste must be disposed of in accordance with national and local environmental control regulations.

Recommendations for the product

Dispose of as hazardous waste.

Recommendations for packaging

Packaging that cannot be cleaned should be disposed of like the product.

Section 14: Transport Information



Materials Safety Data Sheet

according to Regulation (EU) No 453/2010

VITAMIN A ACETATE POWDER 325,000 IU/G FOOD GRADE CWD

Revision Date: 04.01.2022

DOT classification

Not a DOT controlled material (United States).
Land and inland navigation transport
(ADR/RID/GGVS/GGVE/ADNR).
No hazardous material as defined by the transport
regulations.

IATA Classification

They are considered to be non-dangerous by the 63th
IATA Dangerous Goods Regulations and it is not
restricted as per SPECIAL PROVISION A3

Suggestion according to IMO IMDG Code

The substance is not subject to IMO IMDG Code.

Section 15: Regulatory Information

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

EINECS

This product is on the European Inventory of Existing
Commercial Chemical Substances.

Protective equipment

Gloves, lab coat, dust respirator, be sure to use an
approved/certified respirator or equivalent, safety
glasses.

Section 16: Other Information

References

Not available.

Other Special Considerations

Not available.

The information above is believed to be accurate and
represents the best information currently available to
us. However, we make no warranty of merchantability
or any other warranty, express or implied, with respect
to such information, and we assume no liability
resulting from its use. Users should make their own
investigations to determine the suitability of the
information for their particular purposes.



PRODUCT NAME	Vitamin A Acetate Powder 325,000IU/g Food Grade CWD	TYPE	Food Grade
Conform to USP/EP		Revision date: 2022/01/02	
ITEM	SPECIFICATION	TEST METHOD	
1. Appearance	Pale yellow to yellow free flowing powder	Visual	
2. Loss on drying	≤ 5.0%	USP <731>	
3. Vitamin A Acetate Content	≥ 325,000IU/g	HPLC (EP)	
4. Water Dispersibility	Easily dispersed in cold water 15 °C to form a homogeneous and stable emulsion	1g/100ml water	
5. Granularity: go through the sieve of 60 mesh	≥ 90.0%	USP <786>	
6. Heavy Metal	≤ 10ppm	USP <231>	
7. Lead	≤ 2ppm	AAS	
8. Arsenic	≤ 1ppm	AFS	
9. Mercury	≤ 0.1ppm	AFS	
10. Cadmium	≤ 1ppm	AAS	
11. Microbial Limit Test			
(1) Total Plate Count	≤ 1000cfu/g	USP <2021>	
(2) Yeast & Mold	≤ 100cfu/g	USP <2021>	
(3) Coliforms	≤ 0.3MPN/g	USP <2022>	
(4) E. Coli	Negative/10g	USP <2022>	
(5) Salmonella	Negative/25g	USP <2022>	
(6) S.aureus	Negative/25g	USP <2022>	

SHELF LIFE (UNOPENED)		24 months		
STORAGE		Store in the original container, protected from light, in a dry, cool (8-15° C) place. Once it opened, please use it up in a short time.		
NUTRITIONAL INFORMATION (PER 100G OF RAW MATERIAL)				
ITEM		UNIT	VALUE	NRV%
1. Energy		KJ	1129	13%
2. Protein		g	0	0
3. Total Fat		g	3	5%
4. Carbohydrates		g	73.7	25%
5. Sodium		mg	446	22%
PACKAGING		5kg	Outer: Carton (4bags/carton) Inner: Vacuumed aluminum foil bags (5kg/bag)	
		20kg	Outer: Carton (1bags/carton) Inner: Vacuumed aluminum foil bags (20kg/bag)	
ITEM		ASSAY	SOURCE	ORIGIN
1. Vitamin A Acetate Crystal		13%	Synthetic	China
2. Corn Oil		2~10%	Corn	
3. Tocopherol		0.5~2%	Soybean	
4. Arabic Gum		30~40%	Acacia Senegal	
5. Sucrose		5~15%	Sugarcane	
6. Maltodextrin		30~40%	Corn	
7. Sodium Ascorbate		0.5~1%	Synthetic	
8. Silicon Dioxide		0~1%	Chemical Reaction	

MANUFACTURING PROCESS

Oil phase + Water phase

↓

Emulsification

↓

Spray-drying

↓

Sieving

↓

Mixing

↓

Vitamin A Acetate Powder

↓

Packaging

↓

Product



VEGAN STATEMENT

Date: January 20, 2022

To whom it may concern,

We hereby advise that our product **Vitamin A Acetate Powder Food Grade**
CWD is suitable for vegans.