

## **CERTIFICATE OF ANALYSIS**

Name: Vitamin A Acetate PowderBatch No.: 4522607Best Before End: October 2026

|     | ITEM   | SPECIFICATION  | RESULT      |
|-----|--|--|-------------|
| 1.  | Appearance                                   | Pale yellow to yellow flowing powder   | Complies    |
| 2.  | Loss on drying                               | <5.0%  | 3.82%       |
| 3.  | Vitamin A Acetate Content                    | ;>325,000IU/g  | 343,600IU/g |
| 4.  | Solubility                                   | Easily dispersed in cold water 15°C to form<br>a homogeneous and stable emulsion | Complies    |
| 5.  | Granularity: go through the sieve of 60 mesh | ;>90.0%  | 98.6%       |
| 6.  | Heavy Metal                                  | < 10ppm  | Complies    |
| 7.  | Lead   | <2ppm  | <1ppm       |
| 8.  | Arsenic                                      | <1ppm  | <1ppm       |
| 9.  | Mercury                                      | <0.1ppm  | <0.1 ppm    |
| 10  | Cadmium                                      | <1ppm  | <1ppm       |
| 11. | Microbial Limit Test                         |  |             |
| (1  | ) Total Plate Count                          | < 1000cfu/g  | <10 cfu/g   |
| (2  | ) Yeast & Mold                               | <100cfu/g  | <10cfu/g    |
| (3) | ) Coliforms                                  | <0.3MPN/g  | <0.3MPN/g   |
| (4) | ) E Coli                                     | Negative/10g   | Negative    |
| (5) | ) Salmonella                                 | Negative/25g   | Negative    |
| (6) | ) S. Aureus                                  | Negative/25g   | Negative    |

Conclusion: Conform to USP41.

Storage: Store in the original container, protected from light, in a dry, cool (8-15'C) place.



### **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.

# bíOrígins

#### **ALLERGEN INFORMATION**

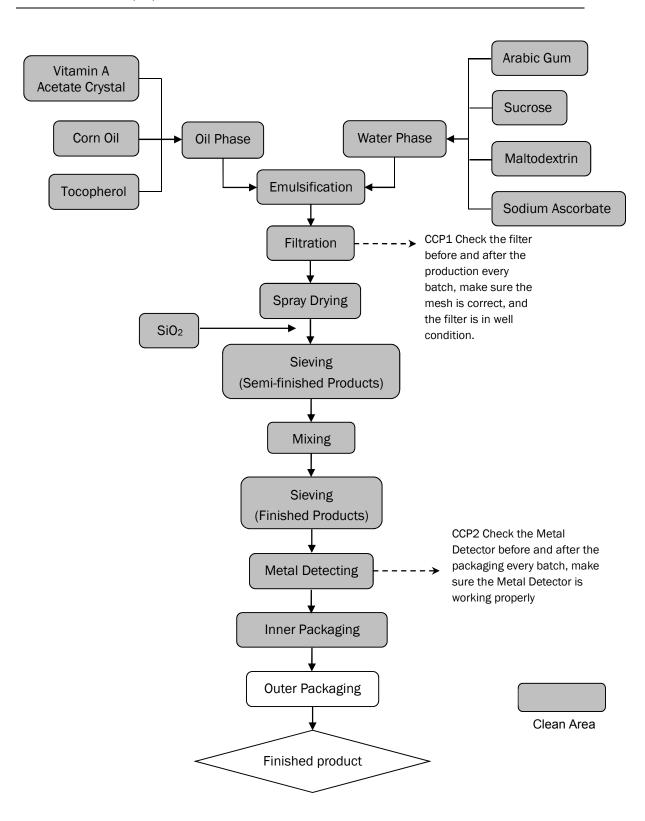
Revision date: 2022/01/04

|     |  |         | 1      | Revision date: 2022/01/04 |
|-----|--|---------|--------|---------------------------|
|     | ODUCT:<br>amin A Acetate Powder CWD Food Grade   | Present | Absent | Comments                  |
|     | <b>e of Allergen</b><br>ulation (EU) No 1169/2011, <i>ANNEX II</i>   |         |        |                           |
| 1.  | Cereals containing gluten, namely: wheat, rye, barley, oats, spelt, kamut or their hybridised strains, and products thereof  |         | Ø      |                           |
| 2.  | Crustaceans and products thereof   |         | Ø      |                           |
| 3.  | Eggs and products thereof  |         | V      |                           |
| 4.  | Fish and products thereof  |         | V      |                           |
| 5.  | Peanuts and products thereof   |         | V      |                           |
| 6.  | Soybeans and products thereof<br>(except: natural mixed tocopherols (E306), natural D-alpha tocopherol,<br>natural D-alpha tocopherol acetate, and natural D-alpha tocopherol<br>succinate from soybean sources)   |         | Ø      |                           |
| 7.  | Milk and products thereof (including lactose)  |         | Ø      |                           |
| 8.  | Nuts, namely: almonds ( <i>Amygdalus communis L.</i> ), hazelnuts<br>( <i>Corylus avellana</i> ), walnuts ( <i>Juglans regia</i> ), cashews<br>( <i>Anacardium occidentale</i> ), pecan nuts ( <i>Carya illinoinensis</i><br>(Wangenh.) K. Koch), Brazil nuts ( <i>Bertholletia excelsa</i> ),<br>pistachio nuts ( <i>Pistacia vera</i> ), macadamia or Queensland nuts<br>( <i>Macadamia ternifolia</i> ), and products thereof |         | Ø      |                           |
| 9.  | Celery and products thereof  |         | V      |                           |
| 10. | Mustard and products thereof   |         | V      |                           |
| 11. | Sesame seeds and products thereof  |         | V      |                           |
| 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   |         | Ø      |                           |
| 13. | Lupin and products thereof   |         | Ø      |                           |
| 14. | Molluscs and products thereof  |         | Ø      |                           |
| Тур | e of Allergen<br>Compliance Guidelines, <i>Appendix</i> 6  |         |        |                           |
| 1.  | Wheat  |         | Ø      |                           |
| 2.  | Crustacean Shellfish   |         | Ø      |                           |
| 3.  | Eggs   |         | Ø      |                           |
| 4.  | Fish   |         | Ø      |                           |
| 5.  | Peanuts  |         | V      |                           |
| 6.  | Milk   |         | V      |                           |
| 7.  | Tree Nuts  |         | V      |                           |
| 8.  | Soybeans   |         | Ø      |                           |



#### 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 <u>Vitamin A Acetate</u> <u>Powder Food Grade CWD</u> is NON-GMO.



#### Section 1: Chemical Product and Company Identification

Contact information MADAR Corporation Limited 19-20 Sandleheath Industrial Estate Fordingbridge Hampshire SP6 1PA

01425 653574

Approved sellers: Mystic Moments, New Directions, World of Moulds

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 MADAR 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 MADAR Corporation has been advised of the possibility of such damages. party or for lost profits or any special, indirect, incidental, consequential or exemplary damages of the possibility of such damages.



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 **Madar Corporation Limited** Company

Information:

19 - 20 Sandleheath Industrial Estate Fordingbridge SP6 1PA 01425 655 555

technical@madarcorporation.co.uk

1.4. Emergency telephone number:

Tel: 01425 655 555

#### 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 damager 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



#### Hazard statements

H315 H360D

Pictograms:

Causes skin irritation May damage the unborn child

| H413                      | May cause long lasting harmful     |  |  |  |  |  |
|---------------------------|------------------------------------|--|--|--|--|--|
| effects to aquatic        | life                               |  |  |  |  |  |
| Precautionary st          | atements                           |  |  |  |  |  |
| 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 | About 13.0% | 127-47-9   |  |  |
| Crystal           |             |            |  |  |
| 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         | Repr. Cat. 1,              |  |  |
| according to Directive | Xi - Irritant R61-38       |  |  |
| 2006/121/EC            |                            |  |  |
| Classification         | Repr. 1B, H360D;           |  |  |
| according to           | Aquatic Chronic 4, H413;   |  |  |
| Regulation (EC) No.    | Skin Irrit. 2, H315        |  |  |
| 1272/2008 [CLP]        |                            |  |  |
| Quantity               | 10-<30%                    |  |  |

#### Section 4: First Aid Measures

BiOrigins, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Tel: 01425 655555 Email: technical@madarcorporation.co.uk Page 10 of 15

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 (CO<sub>2</sub>). 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  $39^{\circ}$ 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)

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                              |  |  |
|                  | Easily dispersed in cold water 15°C to form a |  |  |
| Solubility       | homogeneous and stable<br>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 (LD<sub>50</sub>): >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

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.

## bíOrígins

| PRODUCT NAME                           | Vitamin A Ac | etate Powder 325,000IU/g Food Grade CWD   | TYPE | Food Grade   |  |
|--|--------------|---|------|--------------|--|
| Conform to USP/EP                      |              | Revision date: 2022/01/02   |      |              |  |
| ПЕМ                                    |              | SPECIFICATION   | TE   | ST METHOD    |  |
| 1. Appearance                          |              | Pale yellow to yellow free flowing powder   |      | Visual       |  |
| 2. Loss on drying                      |              | ≤5.0%   | ι    | JSP <731>    |  |
| 3. Vitamin A Acetate Co                | ntent        | ≥325,000IU/g  |      | HPLC (EP)    |  |
| 4. Water Dispersibility                |              | Easily dispersed in cold water 15 °C to form a<br>homogeneous and stable emulsion | 1g,  | /100ml water |  |
| 5. Granularity: go throu<br>of 60 mesh | gh the sieve | ≥90.0%  | ι    | JSP <786>    |  |
| 6. Heavy Metal                         |              | ≤10ppm  | ι    | JSP <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  | U    | SP <2021>    |  |
| (2) Yeast & Mold                       |              | ≤100cfu/g   | U    | SP <2021>    |  |
| (3) Coliforms                          |              | ≤0.3MPN/g   | U    | SP <2022>    |  |
| (4) E. Coli                            |              | Negative/10g  | U    | SP <2022>    |  |
| (5) Salmonella                         |              | Negative/25g  | U    | SP <2022>    |  |
| (6) S.aureus                           |              | Negative/25g  | U    | SP <2022>    |  |

| SHELF LIFE (UNOPENED)        | 24 months   |  |                      | MANUFACTURING PROCESS                             |                                |
|------------------------------|---|--|----------------------|---|--------------------------------|
| STORAGE                      | Store in the original container, protected from light, in a dry,<br>cool (8-15°C) place. Once it opened, please use it up in a<br>short time. |  |                      |   | <u>Oil phase + Water phase</u> |
| NUTRITIONAL INFORMATION      | (PER 1000   | OF RAW I   | MATERIAL)            |   | ↓<br>Emulsification            |
| ITEM                         |   | UNIT   | VALUE                | NRV%  | Ļ                              |
| 1. Energy                    |   | KJ   | 1129                 | 13%   | Spray-drying                   |
| 2. Protein                   |   | g  | 0                    | 0   | Ļ                              |
| 3. Total Fat                 |   | g  | 3                    | 5%  | Sieving                        |
| 4. Carbohydrates             |   | g  | 73.7                 | 25%   |                                |
| 5. Sodium                    |   |  | 446                  | 22%   | Mixing                         |
| PACKAGING                    | 5kg   | Inner: vacuumed aluminum ioli bags (5kg/ bag)                                      |                      | <u>Vitamin A Acetate Powder</u><br>↓<br>Packaging |                                |
|                              | 20kg  | 20kg Outer: Carton (1bags/carton)<br>Inner: Vacuumed aluminum foil bags (20kg/bag) |                      | ↓<br><u>Product</u>                               |                                |
| ITEM                         | ASSAY   | -  | SOURCE               | ORIGIN  |                                |
| 1. Vitamin A Acetate Crystal | 13%   | Synthetic  |                      |   |                                |
| 2. Corn Oil                  | 2~10%   |  | Corn                 |   |                                |
| 3. Tocopherol                | 0.5~2%  | )  | Soybean              |   |                                |
| 4. Arabic Gum                | 30~409  | %  | Acacia Senegal China |   |                                |
| 5. Sucrose                   | 5~15%   |  | Sugarcane            | Omna  |                                |
| 6. Maltodextrin              | 30~409  | %  | Corn                 |   |                                |
| 7. Sodium Ascorbate          | 0.5~1%  | )  | Synthetic            |   |                                |
| 8. Silicon Dioxide           | 0~1%  | Chemical Reaction  |                      |   |                                |



## **VEGAN STATEMENT**

Date: January 20, 2022

To whom it may concern,

We hereby advise that our product <u>Vitamin A Acetate</u> <u>Powder Food Grade</u> <u>CWD</u> is suitable for vegans.