SmartHerb
Innovating Botanical Health

Address: NO.76-3 Chengnan Road, Huaxi Subdistrict, Changxing County, Huzhou City, Zhejiang Province, 313100, China

Technical Data Sheet

Product Name: Biomax™ Vega Vitamin D3 100,000 Powder CWS **Trade Brand: SmartHerb**

Technical Data Sheet			
AC Code	BM080301a	CAS number	67-97-0
Molecular formula	$C_{27}H_{44}O$	Molecular weight	384.638
Origin	China	Source	Pine Tree
Item	**Standard**		**Analysis Method**
Appearance	White to Off-white/Pale Yellowish Free-flowing Powder		Visual
Solubility(1%w/w in Water)	Uniform Milk-white Solution		Visual
Typical Analysis			
Assay	≥1,00,000 IU/g		HPLC
Loss on drying	≤5.0%		USP<731>
Particle Size	≥90% through 60 mesh		USP<786>
Bulk Density	30~70g/ 100mL		USP<616>
Heavy metals			
Lead (Pb)	≤0.5ppm		ICP-MS
Arsenic (As)	≤1.5ppm		ICP-MS
Cadmium (Cd)	≤0.5ppm		ICP-MS
Mercury (Hg)	≤0.2ppm		ICP-MS
Microorganism			
Total Aerobic Microbial Count	<1,000CFU/g		USP<2021>
Total Combined Yeasts & Moulds Count	<100CFU/g		USP<2021>
Salmonella	Negative/ 10g		USP<2022>
E. coli	Negative/ 10g		USP<2022>
S. Aureus	Negative/ 10g		USP<2022>
Package	100kgs		
Shelf life	24 Months		
Storage	Store in tightly closed containers at room temperature. Protected from moisture and pest infestation.		

INGREDIENTS

An ingredient is defined in Directive 2000/13/EC on labelling:"ingredient means any substance including additives, used in the production

or preparation of a foodstuff and sill present in the finished product although possibly in a modified form" i.e all raw materials to produce the goods.

Please list all ingredients:

Ingredients/material composition	%	Country of origin
Cholecalciferol	0.25-0.4	China
MCT Oil	8-25	China
Antioxidants (RosemaryExtract)	0.05-1.0	China
Modified Starch	30-60	China
Maltodextrin	30-60	China
Arabic Gums	5-10	China

ORIGIN

Country of origin of the product:China			
Is a manufacturing process available	☑YES	☐NO	
Source of the product:	☐Animal ☑Plant ☐Mineral origin ☐Synthetic ☐Biotechnological processing		
please answer the following questions.			
Starting material:	Pine Tree	Origin:	China

GENETICALLY MODIFIED ORGANISMS-GMO

According to EU regulations EC/1829/2003 &EC/1830/2003

According to the EUregulations concerning the traceability and labelling of Genetically Modified Organisms(GMO),and the traceability of food products produced from GMO, we confirm that the product:		
Contains ingredient(s)from Maize and/or Soya origin	☐YES	☑NO
Contains no material which contains,consists of or is produced from authorized GMOs in proportion higher than 0,9%.This presence is adventitious or technically unavoidable	☑YES	☐NO
is GMO or contains or consists of GMOs	☐YES	☑NO
is produced from GMOs or contains ingredients produced from GMOs	☐YES	☑NO
Contains ingredient(s)from other potential GMO-risk raw material(s)(rice,beet cotton ...)	☐YES	☑NO
If Yes,please specify: o ingredient: o vegetable origin: o geographic origin:		
Contains no material which contains,consists of or is produced from evaluated GMOs in proportion higher than 0,5%.This presence is adventitious or technically unavoidable	☑YES	☐NO
For information about processing aids, is produced or contains ingredient(s)produced with GMOs or Genetically Modified Microorganisms processing aids (bacteria,yeast...or derived from GMOs or GMMs(including enzymes)	☐YES	☑NO
If yes,please specify:		
We confirm that the ingredient supplied is compliant in all	☑YES	☐NO

respects with the Regulations N° 1829/2003/EC and N° 1830/2003/EC where applicable		

SUBSTANCES OR PRODUCTS CAUSING ALLERGIES OR INTOLERANCES

According to Regulation(EU)No.1169/2011 as regards of ingredients present in foodstuffs

Allergenic substances (Regulation EU 1169/2011 – Annex II)	Present in finished product	Present in the manufacturing site	Present on the same manufacturing line	Possible cross-contamination
Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains)	NO	NO	NO	NO
Crustaceans and products thereof	NO	NO	NO	NO
Eggs and products thereof	NO	NO	NO	NO
Fish and products thereof	NO	NO	NO	NO
Peanuts and products thereof	NO	NO	NO	NO
Soybeans and products thereof	NO	NO	NO	NO
Milk and products thereof (including lactose)	NO	NO	NO	NO
Nuts (almond, hazelnut, walnut, cashew, pecan nut, Brazil nut, pistachio nut, macadamia nut)	NO	NO	NO	NO
Celery and products thereof	NO	NO	NO	NO
Mustard and products thereof	NO	NO	NO	NO
Sesame seeds and products thereof	NO	NO	NO	NO
Sulphur dioxide and sulphites (>10 mg/kg or 10 mg/L expressed as SO_2)	NO	NO	NO	NO
Lupin and products thereof	NO	NO	NO	NO
Molluscs and products thereof	NO	NO	NO	NO

NON IRRADIATION

According to UE Directive No.1999/2/CE

Has this raw material or one of its ingredients been irradiated or ionised	☐YES	☑NO
We confirm above non-irradiation statement is available	☑YES	

NANOMATERIAL

According to Regulation(EU)No 1169/2011

Does this raw material contain or can be considered asengineered nanomaterial	☐YES	☑NO

Does this raw material have been made with nanotechnology?	☐YES	☑NO
Does the product contain nanotechnology as defined by the French decree no.2012-232?	☐YES	☑NO

WADA Anti-Doping Statement

Current WADA Prohibited List

Does the product contain any prohibited substances (hormones, anabolic agents, stimulants) listed on WADA Prohibited List?	☐YES	☑NO
Is there any risk of cross-contamination with WADA banned substances during production?	☐YES	☑NO

FOOD CERTIFICATE

Manufacturer's quality certificates:				
ISO 9001 ☐	HACCP ☐	ISO 14001 ☐	ISO 22000 ☐	☑OTHER

Is the raw material Food Grade?	☑YES	☐NO
Can the product be used in baby food(Directive 2006/141/CE)?	☐YES	☑NO
Does the product comply with the UE Regulation No231/2012 about additives?	☑YES	☐NO
Is the product complying with a Pharmacopeia monography?	☑YES	☐NO
Is the product complying with the UE Regulation No.1334/2008 about flavourings?	☐YES	☑NO
Was the product used in the European food industry before May 1997?	☑YES	☐NO
If no,could you provide an authorisation (according to Regulation 258/97/EC)?	☐YES	☐NO
Are stability studies available?	☑YES	☐NO

CONTAMINANTS

Is the product conforming to UE regulations No 2023/915 setting maximum levels for certain contaminants in foodstuffs,as amended?	☑YES	☐NO

Contaminants	Tested?	Result
Pesticides (multi-residue)?	Can be provide if need	Complies with EU 396/2005
Dioxins and dioxin like PCBs?	Can be provide if need	Complies with EU 915/2023
Heavy metals	Can be provide if need	Complies (≤10 ppm)
PAHs(PAH4)	Can be provide if need	Complies with EU 915/2023
Benzo[a]pyrens?	Can be provide if need	Complies with EU 915/2023
Mycotoxins (Aflatoxins, OTA)	Can be provide if need	Complies with EU 915/2023
3-MCPD	NO	Not applicable
Doping like substances? http://list.wada-ama.org/	NO	Not applicable

FOREIGN BODIES

Which material do you use in order to fight against the foreign bodies			
	Presence?	Test frequency	Where is it located on the process line?
Magnet	YES	Continuous	Raw material intake / processing line

Metal detector	YES	Each batch	Before packaging
Sieve	YES	Continuous	During processing
Filter	YES	Continuous	Extraction / filtration stage
X-ray detection	NO	N/A	N/A
Other(please specify)	NO	N/A	N/A

NUTRITIONAL VALUES

Nutritional Composition	☑Per 100g ☐Per serving
Energy(kJ/kcal)	1873
Total Fat(g)	9.4
Total Carbohydrate(g)	89.7
Fibre(g)	0
Protein(g)	0
Salt(g)	0
Vitamins D3:	250,000mcg
Minerals:	0
Remarks: Nutrition Data are obtained by 3rd party lab; tested on a yearly basis	

TRACEABILITY

Batch size	
Batch definition	A batch is defined as a homogeneous production lot produced under the same conditions
Signification of the batch number by an example	N/A
Marking method (labelling...)	N/A

PACKAGING

Is the packaging material approved as food grade according to regulations 1935/2004,10/2011 and 1282/2011?	☑YES ☐NO
Do you guarantee the packaging traceability according to regulation 1935/2004(art 17)?	☑YES ☐NO
Can you guarantee that the product and its packaging supplied t(do not contain Phtalates?	☑YES ☐NO
Can you guarantee that the product and its packaging supplied to do not contain ITX? (A packaging contaminant:Isopropylthioxanthone(ITX)found in dairy products)	☑YES ☐NO
Can you guarantee that the product and its packaging supplied tos do not contain BisphenolA(BPA)?	☑YES ☐NO
Do you add desiccant bags during packaging process? If so,where do you mention it:……	☑YES ☐NO
Can you provide migration test in order to guarantee packaging safety?	☑YES ☐NO

Material Safety Data Sheet

Section 1 Identification of Substance

Product Name:	BiomaxTM Vega Vitamin D3 100,000 Powder CWS	CAS No.	67-97-0
Molecular Formula:	$C_{27}H_{44}O$	Molecular Weight:	384.64
Company	Smartherb Inc		
Address	NO.76-3 Chengnan Road, Huaxi Subdistrict, Changxing County, Huzhou City, Zhejiang Province, 313100, China		

Section 2 Hazards Identification

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

2.2 LABEL ELEMENTS

Labelling according to Regulation (EC) No. 1272/2008.

2.3 OTHER HAZARDS

Health Rating: Not applicable

Flammability Rating: Not applicable

Reactivity Rating: Not applicable

Potential Health Effects:

Inhalation - No known hazards to the respiratory system.

Eye Contact - Mild irritation may occur.

Skin Contact - Irritation not expected.

Ingestion - No severe adverse effects expected.

Chronic Exposure - No data available

Section 3 Composition, Information on Ingredients

3.1Substance Name:Biomax^{TM} Vega Vitamin D3 100,000 Powder CWS

3.2 CAS No.: 67-97-0

3.3 Weight: 384.64

3.4 Structure formula: $C_{27}H_{44}O$

Section 4 First Aid Measures

4.1 IF INHALED

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

4.2 IN CASE OF SKIN CONTACT

Wash off with soap and plenty of water.

4.3 IN CASE OF EYE CONTACT

Flush eyes with water as a precaution.

4.4 IF SWALLOWED

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.5 MOST IMPORTANT SYMPTOMS AND EFFECTS,BOTH ACUTE AND DELAYED

no data available

4.6 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

no data available

Section 5 Fire-Fighting Measures

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media Use powder, water spray, or foam.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 ADVICE FOR FIREFIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 FURTHER INFORMATION

no data available

Section 6 Accidental Release Measures

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid dust formation. Avoid breathing vapors, mist or gas.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 Handling and Storage

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 CONDITIONS FOR SAFE STORAGE

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

7.3 SPECIFIC END USES

no data available

Section 8 Exposure Controls/Personal Protection

8.1 APPROPRIATE NEGINEERING CONTROLS

General industrial hygiene practice.

8.2 PERSONAL PROTECTIVE EQUIPMENT

8.3 EYE/FACE PROTECTION

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

8.4 SKIN PROTECTION

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.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.

8.5 BODY PROTECTION

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.6 RESPIRATORY PROTECTION

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired,use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9 Physical and Chemical Properties

Appearance	White to Off-white/Pale yellowish free-flowing powder
Odour	Characteristic
Odour Threshold	no data available
pH	no data available
Melting point/freezing point	no data available
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
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Autoignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data availabl

Section 10 Stability and Reactivity

10.1 REACTIVITY

no data available

10.2 CHEMICAL STABILITY

no data available

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

no data available

10.4 CONDITIONS TO AVOID

Heating, sunlight.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Other decomposition products - no data available

Section 11 Toxicological Information

11.1 ACUTE TOXICITY

no data available

11.2 SKIN CORROSION/IRRITATION

no data available

11.3 SERIOUS EYE DAMAGE/EYE IRRITATION

no data available

11.4 RESPIRATORY OR SKIN SENSITIZATION

no data available

11.5 GERM CELL MUTAGENICITY

no data available

11.6 CARCINOGENIC ITY

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.

11.7 REPRODUCTIVE TOXICITY

no data available

11.8 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

no data available

11.9 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

no data available

11.10 ASPIRATION HAZARD

no data available

11.11 POTENTIAL HEALTH EFFECTS

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

11.12ADDITIONAL INFORMATION RTECS: Not available

Section 12 Ecological Information

12.1 TOXICITY

no data available

12.2 PERSISTENCE AND DEGRADABILITY

no data available

12.3 BIOACCUMULATIVE POTENTIAL

no data available

12.4 MOBILITY IN SOIL

no data available

12.5 PBT AND VPVB ASSESSMENT

no data available

12.6 OTHER ADVERSE EFFECTS

no data available

Section 13 Disposal Considerations

13.1 PRODUCT

Offer surplus and non-recyclable solutions to a licensed disposal company.

13.2 CONTAMINATED PACKAGING

Dispose of as unused product.

Section 14 Transport Information

14.1 ADR/RID

Not dangerous

14.2 goods IMDG

Not dangerous

14.3 goods IATA

Not dangerous goods

Section 15 Regulatory Informatio

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

15.1 SAFETY, HEAITH AND ENVIRONMENTAL REGULATIONS.LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

no data available

15.2 CHEMICAL SAFETY ASSESSMENT

no data available

Section 16 Other Information

16.1 The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. shall not be held liable for any damage resulting from handling or from contact with the above product see reverse side of invoice or packing slip for additional terms and conditions of sale.

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Flow Chart