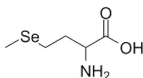


(L-Selenomethionine Blend (0.5%Se) DCP)

SPECIFICATION

Date: 23.01.2025

Molecular Formula	Chemical Structure	CAS No.
C ₅ H ₁₁ NO ₂ Se		3211-76-5

Tests	Specifications
Appearance	White to Off White Powder
L-(+)-Selenomethionine	NLT 1.24%
Selenium Content	NLT 0.5% (5000 ppm)
Identification	Positive
Loss on ignition	≤ 8.5%
Lead	<3 ppm
Cadmium	< 1 ppm
Arsenic	< 1 ppm
Mercury	< 0.1 ppm
Particle Size	100% through 80 Mesh
Bulk Density	0.85 – 1.15 g/ml
Tapped Density	0.95 – 1.25 g/ml
Total Plate Count	≤ 1000 cfu/g
Yeast and Mould	≤ 100 cfu/g
E.Coli	Negative/g
Salmonella	Negative/25g
Shelf Life	3 Years
S.aureus	Negative/g

(L-Selenomethionine Blend (0.5%Se) DCP)

GENERAL STATEMENTS

Date: 23.01.2025

Origin

L-Selenomethionine Pure - India

Dicalcium Phosphate Anhydrous - China

Blended in the UK

Shelf Life

3 years

Allergen statement

We advise that the above product does not contain any of the substances listed in Annex III of the directive 2000/13/EC Regulation EU No. 1169/2011 of the European Parliament and of the Council of 25 October 2011 on the provision of food information to consumers, amending Regulations (EC) No. 1924/2006 and (EC) No 1925/2006 of the European Parliament and of the Council, and repealing Commission Directive 87/250/EEC, Council Directive 90/496/EEC, Commission Directive 1999/10/EC, Directive 2000/13/EC of the European Parliament and of the Council, Commission Directives 2002/67/EC and 2008/5/EC and Commission Regulation (EC) No 608/2004. Furthermore, none of these substances have been used or have been in contact with the product during the manufacturing process.

Non-GMO Statement

The following EU Regulations have been published in the Official Journal of the European Union: Regulation (EC) No. 1829/2003 of the European Parliament and the Council of 22nd September 2003 on genetically modified food and feed.

Regulation (EC) No. 1830/2003 of the European Parliament and the Council of 22nd September 2003 concerning traceability and labeling on genetically modified organisms and traceability of food and feed products produced from genetically modified organisms and amending Directive 2001/18/EC.

We advise that the above product has not been genetically modified so there is no obligation of GMO labeling as defined by the above mentioned regulations.

Non-Irradiation Statement

According to directives 1992/2/EC and 1999/3/EC, we advise that the above product is not made from irradiated/ionized raw materials nor was it irradiated/ionized.

GENERAL STATEMENTS

Date: 23.01.2025

ETO Statement

We advise that Ethylene Oxide is not used in nor applied to the above product.

BSE/TSE Statement

We advise that the above product does not contain and is not derived from Specified Risk Material as defined in Commission Directive European and it conforms to the EU legislation relating to the risk of Transmission of Spongiform Encephalopathy (TSE).

Vegan/Vegetarian Statement

We advise that the above product is suitable for vegan and vegetarian diets.

Composition Statement

L-(+)-Selenomethionine (of which what % is Selenium)	1.24% (Minimum 0.5%)
Di Calcium Phosphate	98.76%
Total	100%

Kosher & Halal Statement

We advise that the above product is suitable for Kosher and Halal diets.

Residual Solvents Statement

We advise that the above product conforms with EU Regulation 2009/32/EC.

Pesticides & PAH Statement

We advise that the above product is derived from Chemical Synthesis and a mineral blend and not subject to the Pesticide and PAH regulation.

WADA Statement

As per the list of 2020 of the World Anti-doping Agency, we advise that the above product is not a doping substance and not a combination of doping substances. The above product does not contain any doping substance and does not result from a doping substance.

(L-Selenomethionine Blend (0.5%Se) DCP)

GENERAL STATEMENTS

Date: 23.01.2025

Nanomaterials Statement

According to the definition of 'nanomaterials' of the EU Regulation No. 1169/2011 of the European Parliament and of the Council of 25th October 2011 on the provision of food information to consumers, we advise that no nanomaterials are used in the formulation nor in the packaging materials of the above product.

Packaging Statement

We advise that the packaging materials used for the above product comply with Regulation (EC) 1935/2004.

Contaminant Statement

We advise that the above product complies with Regulations (EC) 1881/2006 and 629/2008 and amendments.

Dioxins Statement

We advise that the above product does not contain dioxins.

Melamine Statement

We advise that the above product does not contain melamine.

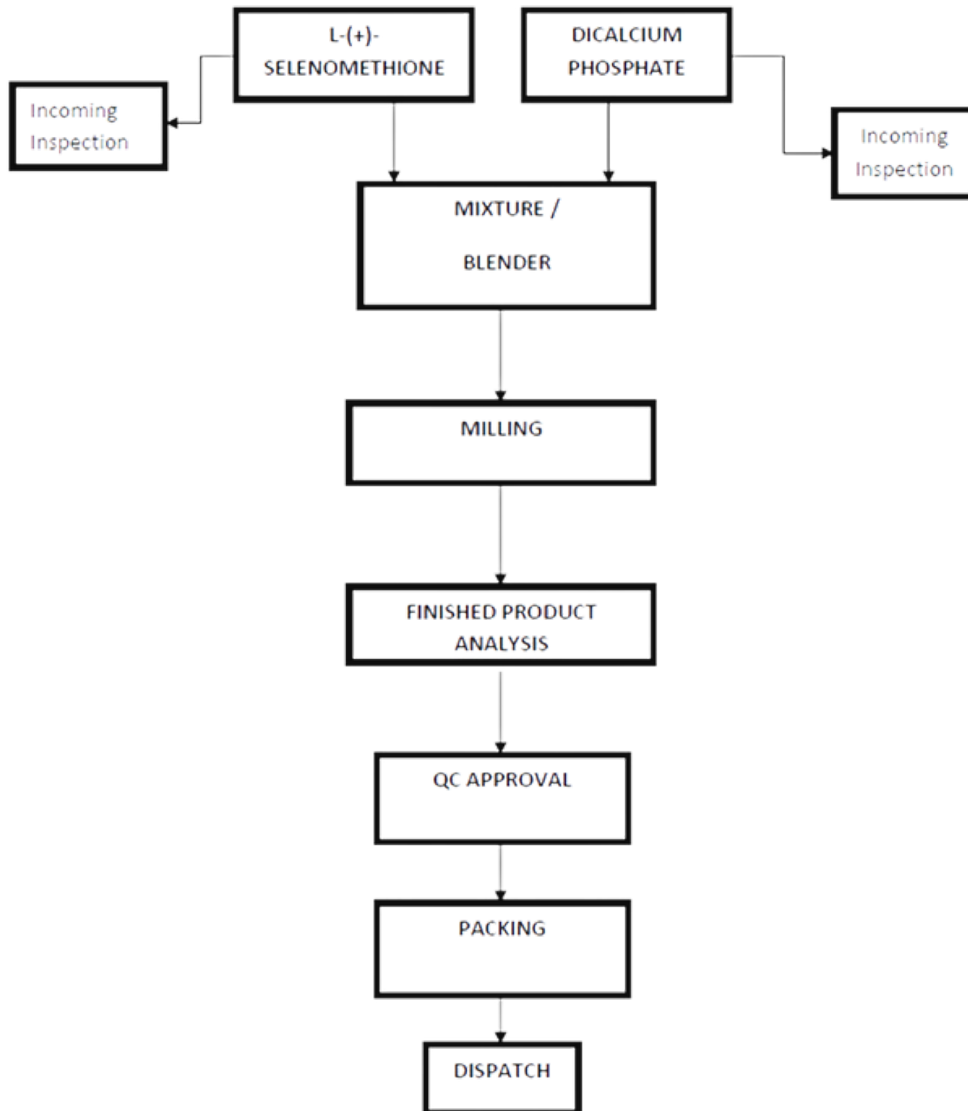
Food Grade Statement

We advise that the above product is food grade and can be used for human food.

(L-Selenomethionine Blend (0.5%Se) DCP)

FLOW CHART

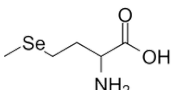
Date: 23.01.2025



(L-Selenomethionine Blend (0.5%Se) DCP)

SAFETY DATA SHEET

Date: 23.01.2025

Molecular Formula	Chemical Structure	CAS No.
<u>C₅H₁₁NO₂Se</u>		3211-76-5

Section 1: Chemical Product and Company Identification

Product Name: L-(+)-Selenomethionine 0.5% Dicalcium Phosphate Blend CAS#: {3211-76-5}
Mixture.
RTECS: Not applicable.
TSCA: TSCA 8(b) inventory: Calcium phosphate dibasic
CI#: Not available.
Synonym: L-(+)-Selenomethionine Blend
Chemical Name: Not applicable.
Chemical Formula: Not applicable.

Section 2: Composition and Information on Ingredients

Composition: L-(+)-Selenomethionine & Dicalcium Phosphate CAS # [3211-76-5] [7757-93-9]
% by Weight : L-(+)-Selenomethionine 1.24% Dicalcium Phosphate 98.5%
Toxicological Data on Ingredients:
L-Selenomethionine LD50: Not available. LC50: Not available.
Calcium phosphate dibasic LD50: Not available.
LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects:
Maybe harmful in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Potential Chronic Health Effects:
EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
The substance is toxic to lungs, mucous membranes. The substance may be toxic to liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Date: 23.01.2025

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature. Auto-Ignition Temperature: Not available.

Flash Points: The lowest known value is CLOSED CUP: 25°C (77°F). (L-Selenomethionine)

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...). Some metallic oxides.

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of open flames and sparks, of heat.

Non-flammable in presence of shocks, of oxidizing materials, of reducing materials, of combustible materials, of organic materials, of metals, of acids, of alkalis, of moisture.

Explosion Hazards in Presence of Various Substances: 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.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. Special Remarks on

Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Organic dusts can form explosive mixtures in air.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid. (Powdered solid.) Odor: Sulfurous. (Slight.)

Taste: Not available.

Molecular Weight: Not applicable. Color: White. Off-white.

pH (1% soln/water): Not available. Boiling Point: Not available.

Melting Point: 260°C (500°F) based on data for: L-Selenomethionine.

Critical Temperature: Not available.

Specific Gravity: The only known value is 2.306 (Water = 1) (Calcium phosphate dibasic).

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: See solubility in water, methanol.

Solubility: Slightly soluble in cold water, and very slightly soluble in methanol.

Section 10: Stability and Reactivity Data

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...). Stability The product is stable. Reactive with oxidizing agents.

Materials to avoid : Specific effects LD50: Not available.

LC50: Not available.

Section 11: Toxicological information

Routes of Entry: Inhalation. Ingestion. Toxicity to Animals:

LD50: Not available. LC50: Not available. Chronic Effects on Humans:

CARCINOGENIC EFFECTS: Classified 3 (Not classifiable for human.) by IARC [L-Selenomethionine]. Contains material which may cause damage to the following organs: liver.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Dust may cause eye irritation. Ingestion: Swallowing this material during normal handling is not likely to be harmful. Inhalation: This material may produce dust. May cause respiratory tract irritation. Breathing small amounts of this material during normal handling is not likely to be harmful. Breathing large amounts may be harmful. The toxicological properties of this substance have not been fully investigated

Section 12: Ecological information

Ecotoxicity Not available. Toxicity of the Products of

Biodegradation: The products of degradation are less toxic than the product itself.

Section 13: Disposal considerations

Methods of disposal; Waste of residues;

Contaminated packaging: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

ADR/RID Class

Section 14: Transport information

Date: 23.01.2025

International transport regulations

Land - Road/Railway: Not controlled under ADR (Europe). IMDG Class Sea: Not controlled under IMDG.

Air : IATA-DGR Class Not controlled under IATA. Special Provisions for Transport : Not applicable

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Calcium phosphate dibasic

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications: WHMIS (Canada):

Not controlled under WHMIS (Canada).

DSCL (EEC): This product is not classified according to the EU regulations. Not applicable. HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.): Health: 1

Flammability: 0

Reactivity: 0 Specific hazard:

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. Created: 22/09/2011

Last Updated: 20/04/2023

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 Shiv Enterprise 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 Shiv Enterprise has been advised of the possibility of such damages.