

Safety Data Sheet

Fava bean protein isolate, Fava bean starch, Fava bean fiber

Issued: 5/6/2022
Version: 1.0.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: Fava bean protein isolate, Fava bean starch, Fava bean fiber

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended uses: Food applications.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Meelunie BV
Address: Claude Debussylaan 40
Zip code: 1082 MD
City: Amsterdam
Country: The Netherlands
E-mail: info@meelunie.com
Phone: +31 205306530

1.4. Emergency Telephone Number

Meelunie BV: +31 205306530
The emergency telephone is open between 8 a.m. and 4 p.m. CET on workdays.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

Most serious harmful effects: Handling of the product causes risk of dust formation, which may irritate nose and throat. May cause slight irritation to the skin and eyes.

2.2. Label elements

The product shall not be classified as hazardous according to the classification and labeling rules for substance and mixtures.

2.3. Other hazards

Assessment to determine PBT and vPvB has not been made.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Contains no substances subject to reporting requirements

SECTION 4: First aid measures

4.1. Description of first aid measures

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| | |
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| Inhalation: | Seek fresh air, wash out mouth with water and blow nose thoroughly. |
| Ingestion: | Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of persistent discomfort. |
| Skin contact: | Remove contaminated clothing. Wash the skin with water. |
| Eye contact: | Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist. |
| General: | When obtaining medical advice, show the safety data sheet or label. |

4.2. Most important symptoms and effects, both acute and delayed

Inhalation of dust may cause irritation to the upper airways. May cause slight irritation to the skin and eyes.

4.3. Indication of any immediate medical attention and special treatment needed

No special immediate treatment required. Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.

Unsuitable extinguishing media: Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Can generate harmful flue gases containing carbon monoxide in the event of fire.

5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Wear respiratory protective equipment with P2 filter when performing dusty work.

For emergency responders: In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

6.2. Environmental precautions

Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Sweep up/collect spills for possible reuse or transfer to suitable waste containers.

6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Running water and eye wash equipment should be available. Wash hands before breaks, before using restroom facilities, and

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at the end of work. By assessments it must be ensured that ATEX rules are met regarding the risk of forming an explosive atmosphere due to work creating dust.

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry area.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit: Contains no substances subject to reporting requirements

Measuring methods: Compliance with occupational exposure limits may be checked by occupational hygiene measurements.

Legal basis: Commission Directive 2000/39/EC (Occupational Exposure Limits) as subsequently amended. Last amended by Commission Directive 2019/1831/EU. Directive 2004/37/EC (Exposure to carcinogens or mutagens at work) as subsequently amended. Last amended by Directive 2019/983/EU.

8.2. Exposure controls

Appropriate engineering controls: Wear the personal protective equipment specified below.

Personal protective equipment, eye/face protection: Not required.

Personal protective equipment, hand protection: Not required.

Personal protective equipment, respiratory protection: Wear respiratory protective equipment with P2 filter when performing dusty work. Respiratory protection must conform to one of the following standards: EN 136/140/145.

Environmental exposure controls: Ensure compliance with local regulations for emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Parameter | Value/unit |
|------------|----------------------------|
| State | Solid, free flowing powder |
| Colour | White / Off-white |
| Odour | Neutral |
| Solubility | No data |

| Parameter | Value/unit | Remarks |
|-----------------------------------------|------------|---------|
| Odour threshold | No data | |
| Melting point | No data | |
| Freezing point | No data | |
| Initial boiling point and boiling range | No data | |
| Flammability (solid, gas) | No data | |
| Flammability limits | No data | |

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| Explosion limits | 225 - 550 g/m ³ | Lower Explosion Limit (LEL). Fava bean protein isolate: 250 g/m ³ ±10 % Fava bean starch: 500 g/m ³ ±10 % Fava bean fiber: 500 g/m ³ ±10 % |
| Flash Point | No data | |
| Auto-ignition temperature | No data | |
| Decomposition temperature | No data | |
| pH (solution for use) | No data | |
| pH (concentrate) | No data | |
| Kinematic viscosity | No data | |
| Viscosity | No data | |
| Partition coefficient n-octanol/water | No data | |
| Vapour pressure | No data | |
| Density | No data | |
| Relative density | No data | |
| Vapour density | No data | |
| Relative density (sat. air) | No data | |
| Particle characteristics | | Fava bean protein isolate: >98%: >63 µm Fava bean starch: >98%: >63 µm Fava bean fiber: >98%: <250 µm; 75%: <63 µm |

9.2. Other information

| Parameter | Value/unit | Remarks |
|---------------------------------------------|------------|---------|
| Minimum ignition temperature of dust clouds | 440-530 °C | |

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive.

10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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| | |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity - oral: | Ingestion of large quantities may cause discomfort. The product does not have to be classified. Test data are not available. |
| Acute toxicity - dermal: | The product does not have to be classified. Test data are not available. |
| Acute toxicity - inhalation: | The product does not have to be classified. Test data are not available. |
| Skin corrosion/irritation: | May cause slight irritation. The product does not have to be classified. Test data are not available. |
| Serious eye damage/eye irritation: | May cause eye irritation. The product does not have to be classified. Test data are not available. |
| Respiratory sensitisation or skin sensitisation: | The product does not have to be classified. Test data are not available. |
| Germ cell mutagenicity: | The product does not have to be classified. Test data are not available. |
| Carcinogenic properties: | The product does not have to be classified. Test data are not available. |
| Reproductive toxicity: | The product does not have to be classified. Test data are not available. |
| Single STOT exposure: | Inhalation of dust may cause irritation to the upper airways. The product does not have to be classified. Test data are not available. |
| Repeated STOT exposure: | The product does not have to be classified. Test data are not available. |
| Aspiration hazard: | The product does not have to be classified. Test data are not available. |

11.2. Information on other hazards

Endocrine disrupting properties: None known.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

The product does not have to be classified. Test data are not available.

12.2. Persistence and degradability

Test data are not available.

12.3. Bioaccumulative potential

Test data are not available.

12.4. Mobility in soil

Test data are not available. Test data are not available.

12.5. Results of PBT and vPvB assessment

No assessment has been made.

12.6. Endocrine disrupting properties

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None known.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Do not discharge large quantities of concentrated spills and residue into drains. If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste (Dir. 2008/98/EU). Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Category of waste: EWC code: Depends on line of business and use, for instance 02 03 99 wastes not otherwise specified

SECTION 14: Transport information

14.1. UN number or ID number: Not applicable.

14.4. Packing group: Not applicable.

14.2. UN proper shipping name: Not applicable.

14.5. Environmental hazards: Not applicable.

14.3. Transport hazard class(es): Not applicable.

14.6. Special precautions for user

None.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

Special Provisions: None.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

| Version | Revision date | Responsible | Changes |
|---------|---------------|-------------------------|---------|
| 1.0.0 | 5/6/2022 | JRO, Bureau Veritas HSE | New. |

Abbreviations:
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and Very Bioaccumulative
STOT: Specific Target Organ Toxicity

Other Information: This safety data sheet has been prepared for and applies to this product only. It is based on our current knowledge and the information that the supplier was able to provide about the product at the time of preparation. The safety data sheet complies with applicable law on preparation of safety data sheets in accordance with 1907/2006/EC (REACH) as

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subsequently changed.

Training advice: A thorough knowledge of this safety data sheet should be a prerequisite condition.

Classification method: Calculation based on the hazards of the known components.

SDS is prepared by

Company: Bureau Veritas HSE Denmark A/S
Address: Oldenborggade 25-31
Zip code: 7000
City: Fredericia
Country: DENMARK
E-mail: infohse@bureauveritas.com
Phone: +45 77 31 10 00
Homepage: www.bureauveritas.dk

Country: EU