

**FSS Papain Powder**

**Page: 1/8**

Date: 09 / 18 / 2018

Version: 3

Cancel and replaces version: 2

## SECTION 1. IDENTIFICATION

**Product Name/Identifier** FSS Papain Powder  
**Product Code** FSS16518

**Recommended Use** Topical Cosmetic Use  
**Restrictions on Use** None

**Supplier/Manufacturing Site** Formulator Sample Shop  
**Address** 135 Joshua Court  
Lincolnton, NC 28092, USA

**Telephone No. (24hrs)** 1-704-276-7099

**Emergency Telephone #** 1-704-276-7099 (Mon-Fri: 8:00AM – 5:00PM EST)

## SECTION 2. HAZARD(S) IDENTIFICATION

### Classification:

#### GHS / CLP

**Basis for Classification:** Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011)

#### USA

**OSHA Regulatory Status:** This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Europe

**Basis for Classification:**

- According to present data no classification and labeling is required according to Directives 67/548/EEC or 1999/45/EC.
- This product is not classified as hazardous to health or environment according to the CLP regulation.

### Labeling Elements:

**Pictograph:** No hazard symbol expected

**Hazard statements/Signal Word:** Not applicable

**Precautionary statements:**

- P233: Keep container tightly closed
- P281: Use personal protective equipment as required
- P402: Store in a dry place
- P404: Store in a closed container
- P410: Protect from sunlight
- P411: Store at temperatures not exceeding 25°C

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied. This information is offered solely for your investigation, verification, and consideration.

**FSS Papain Powder**

**Page: 2/8**

Date: 09 / 18 / 2018

Version: 3

Cancels and replaces version: 2

**Other hazards which do not result in classification:**

No particular fire or explosion hazard.

By mechanical effect: No particular hazards.

By hygroscopic effect: No particular hazards.

**US NFPA 704 (National Fire Protection Association) Hazard Rating System:**

Health hazard: Rating 0; Normal Material

Flammability: Rating 0, Will Not Burn

Reactivity: Rating 0, Stable

Other Hazard Information: None

**Results of PBT and vPvB assessment:**

-PBT: Not applicable

-vPvB: Not applicable

---

---

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Common Chemical Name:** Papain

**Generic name:**

**Chemical Family:** Enzymes

**Description:** Substance

<u>Substance</u>	<u>CAS Numbers</u>	<u>EC Numbers</u>	<u>Percentage</u>
Papain	9001-73-4	232-627-2	100.00%

**Formula:** Not applicable

---

---

## SECTION 4. FIRST-AID MEASURES

**General:** In all cases of doubt, or when symptoms persist, seek medical attention.

**Inhalation:** Move to fresh air from exposure area. Get medical attention for any breathing difficulty.

**Skin contact:** Rinse with soap and water. Get medical advice if irritation develops.

**Eye contact:** Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.

**Ingestion:** Consult with a physician.

**Protection of first-aiders:** No special protection required.

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied.  
This information is offered solely for your investigation, verification, and consideration.

**FSS Papain Powder**

**Page: 3/8**

Date: 09 / 18 / 2018

Version: 3

Cancels and replaces version: 2

## SECTION 5. FIRE-FIGHTING MEASURES

**Fire and explosion hazards:** Not considered to be a fire and explosion hazard

### Extinguishing media:

Suitable: Water, dry chemicals, foam and carbon dioxide

Not suitable: None known

**Fire fighting:** Move container from fire area if it can be done without risk.  
Avoid inhalation of material or combustion by-products.  
Stay upwind and keep out of low area

**Protection for fire-fighters:** Boots, gloves, goggles.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid contact with eyes.

Personal Protective Equipment:  
-Protective goggles

**Environmental precautions:** Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system

### Methods for cleaning up:

Recovery: Pick up free liquid for recycling or disposal. Residual liquid can be absorbed on an inert material.

Cleaning/Decontamination: Wash non-recoverable remainder with water.

Disposal: For disposal of residues refer to sections 8 & 13.

## SECTION 7. HANDLING AND STORAGE

### Handling

Technical measures:

Labeling: Keep out of the reach of children.

Measures:

For industrial use, only as directed.

Safe handling advice:

Wash hands after use. Avoid storage near feed or food stuff.

### Storage

Technical measures:

Keep container closed.

Recommended Storage Conditions:

Store in a cool, dry place. This material must be stored at room temperature (23 - 25°C). It should not be exposed to excessive heat or cold. Do not freeze.

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied.  
This information is offered solely for your investigation, verification, and consideration.

**FSS Papain Powder**

**Page: 4/8**

Date: 09 / 18 / 2018

Version: 3

Cancel and replaces version: 2

Incompatible products: Avoid contact with strong oxidizers.  
Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)

Packaging: Product may be packaged in normal commercial packaging.  
Packaging materials: Recommended - Polypropylene & High Density Polyethylene

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Precautionary statements:** Ensure adequate ventilation

### Control parameters

Occupational exposure Limits:

France: Not Determined  
ACGIH: Not Determined  
Korea: Not Determined  
UK: Not Determined

Surveillance procedures: Not Determined  
Engineering measures: Not Determined

### Personal Protective Equipment:

Respiratory protection: Local exhaust  
Hand protection: Protective gloves made of rubber or neoprene.  
Eye protection: Safety glasses.  
Collective emergency equipment: Eye fountain.  
Skin and Body Protection: Suitable protective clothing  
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Measures related to the Environment: No particular measures.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Free flowing powder  
**Color:** Off-white to light yellow

**Odor:** Characteristic

**Moisture:** < 6.0%

**Heavy Metals:** < 20 ppm  
**Lead:** < 10 ppm  
**Arsenic:** < 2 ppm  
**Cadmium:** < 1 ppm

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied.  
This information is offered solely for your investigation, verification, and consideration.

**FSS Papain Powder**

**Page: 5/8**

Date: 09 / 18 / 2018

Version: 3

Cancel and replaces version: 2

<b>Microbial Content:</b>	< 100 CFU/g ; No pathogens
<b>Yeast &amp; Mold:</b>	< 100 CFU/g
<b>Gram Negative Bacteria:</b>	0 CFU/g
<b>Specific Gravity:</b>	Not determined
<b>Vapor density:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable
<b>Freezing Point:</b>	Not applicable
<b>Melting point:</b>	Not determined
<b>Flash point:</b>	Not applicable
<b>Oxidizing properties:</b>	Non oxidizing material according to EC criteria.
<b>Solubility:</b>	
In water:	Soluble
In organic solvents:	Not determined
Log P:	Not determined

## SECTION 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under ordinary conditions of use and storage up to one year then re-test to full product specifications to extend shelf life
<b>Hazardous reactions:</b>	None known
<b>Conditions to avoid:</b>	No dangerous reactions known under use of normal conditions. Avoid extreme heat.
<b>Materials to avoid:</b>	No dangerous reaction known with common products.
<b>Hazardous decomposition products:</b>	None known

## SECTION 11. TOXICOLOGICAL INFORMATION

<b>Ingestion:</b>	Not Determined
<b>Dermal:</b>	Not Determined
<b>Ocular:</b>	Not Determined
<b>Inhalation:</b>	Not Determined
<b>Acute toxicity data:</b>	Not Determined
<b>Sensitization:</b>	Non-Primary Sensitizers
<b>Repeated dose toxicity:</b>	No known effects
<b>Subacute to chronic toxicity:</b>	Not Determined

**Additional Toxicological Information:** This product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied. This information is offered solely for your investigation, verification, and consideration.

---

---

**FSS Papain Powder**

**Page: 6/8**

Date: 09 / 18 / 2018

Version: 3

Cancels and replaces version: 2

---

---

**Specific effects:**

Carcinogenicity:	No known effects
Mutagenicity:	No known effects
Reproductive toxicity:	No known effects
Neuro-toxicity:	No known effects

**For more information:** Does not present any particular risk on handling under normal conditions of good occupational hygiene practice.

This product has not been tested for the following:

- Primary cutaneous and corrosive irritation
  - Acute oral toxicity
  - Mutagenicity/genotoxicity
- 
- 

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Effects on the aquatic environment: Not Determined

**Biodegradability:**

Persistence: Not Determined

**Bioaccumulation:**

Octanol / water partition coefficient: Not Determined

**Mobility:**

Precipitation:

Expected behavior of the product: Ultimate destination of the product: Soil & sediment.

**Other Adverse Effects:**

None known

---

---

## SECTION 13. DISPOSAL CONSIDERATIONS

**Residues from product**

Prohibition:	Do not allow the product to be released into the Environment.
Destruction/Disposal:	Dispose of in accordance with relevant local regulations

**Contaminated packaging**

Decontamination/cleaning:	Cleaning is not required prior to disposal.
Destruction/Disposal:	

Note: Take all necessary precautions when disposing of this product according to local regulations.

---

---

**FSS Papain Powder**

**Page: 7/8**

Date: 09 / 18 / 2018

Version: 3

Cancels and replaces version: 2

## SECTION 14. TRANSPORT INFORMATION

**UN Number:** None  
**UN Shipping Name:** None

**Transport Hazard Class:** Not classified as dangerous for transport

Land (rail/road): Material is not restrictive for land transport and is not regulated by ADR/RID  
Sea: Material is not restrictive for sea transport and is not regulated by IMO/IMDG  
Air: Material is not restrictive for land transport and is not regulated by ICA/IATA

**Marine Pollutant:** No

**Transport/Additional Information:** Not regulated for US DOT Transport in non-bulk containers  
This material is not dangerous or hazardous

**Special Precautions for User:** None known

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

## SECTION 15. REGULATORY INFORMATION

**Labeling:**  
EC regulations: This product does not need to be labeled in accordance with EC Directives or respective national laws

### Further regulations

United Kingdom: Handle in accordance with relevant British regulation: control of substance Hazardous to Health Regulations Environmental Hygiene Guidance: EH40  
Workplace Exposure Limits (revised annually)

Korea regulations: Industrial safety and hygiene regulation: No  
Hazardous material control regulation: No  
Fire prevention regulation: No

### Other regulations:

EINECS inventory status:	Papain:	232-627-2
TSCA inventory status:	Exempt	
AICS inventory status:	9001-73-4	
Canadian (CEPA DSL) inventory status:	Listed as Papain (DSL)	
Japan (MITI list):	Papain	
Korea:	Papain	

This information is presented in good faith but is not warranted as to accuracy of results. Also, freedom from patent infringement is not implied.  
This information is offered solely for your investigation, verification, and consideration.

**FSS Papain Powder**

**Page: 8/8**

Date: 09 / 18 / 2018

Version: 3

Cancels and replaces version: 2

## Other regulations (Continued):

China inventory status: Papain  
Philippines inventory status: Listed as Papain

\*Listed on 2010 INCI Standard Chinese Name Directory

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

## SECTION 16. OTHER INFORMATION

Prohibited uses: For specific uses, food industry, ask the manufacturer for more information.

Last Revision Date: 04/12/2016

Preparation Date: 09/18/2018

MSDS summary of changes

- Added Heavy Metals & Arsenic – Section 9 (Physical & Chemical Properties) & Updated Transport Information – Section 14 (Transport Information)
- Added Lead & Cadmium & Updated Microbial Content – Section 9 (Physical & Chemical Properties)

The information given is based on our knowledge of this product, at the time of publication in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than which it was intended. This is not in any way excuse the user from knowing and applying all the regulations governing their activity. It is sole responsibility of the user to take all precautions required in handling the product. The purpose of mandatory regulation mentioned is to help the user to fulfill his obligations regarding the use of products. This information is not exhaustive, this is not exonerate the user from ensuring that legal obligations other than those mentioned, relating to the use and storage.