

## SAFETY DATA SHEET

### SECTION 1: Identification

Product Identifier: Bromelain 1200 GDU  
Other Identity: None  
Recommended Use: Food Additive/Dietary Supplement  
Supplier: Charkit Chemical Company, LLC.  
Supplier Address: 32 Haviland Street, Unit 1, Norwalk, CT 06854  
Supplier Phone: 1-203-299-3220  
Emergency Phone: CHEMTREC 1-800-424-9300 (USA), 1-703-527-3887 (International)

### SECTION 2: Hazard Identification

Hazard Class: Skin irritant Category 3  
Eye irritant Category 2B  
Skin sensitizer Category 1B  
Respiratory sensitizer Category 1

Signal Word: Danger  
Hazard Statements: Causes mild skin irritation  
Causes eye irritation  
May cause an allergic skin reaction  
May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements: IF ON SKIN: In case of contact with skin, wash skin with soap and water. Remove contaminated clothing and wash.

IF IN EYES: In case of contact with eyes, flush eyes with low pressure water for at least 15 minutes. If irritation develops, seek medical attention.

IF INHALED: Avoid breathing dust. In case of inadequate ventilation wear respiratory protection. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. May cause sensitization by inhalation in hypersensitive individuals. Avoid dust generation.  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Hazard Symbols:



Other Hazards: If extremely high levels of dust are generated in ambient air, material can support combustion.

### SECTION 3: Composition/Information on Ingredients

Bromelain	CAS Number: 37189-34-7	% by weight: 39 – 66%
Maltodextrin (Waxy Maize)	CAS Number: 9050-36-6	% by weight: 34 – 61%

### SECTION 4: First-aid Measures

First Aid Eye:	In case of contact with eyes, flush eyes with low pressure water for at least 15 minutes. If irritation develops, seek medical attention.
First Aid Skin:	In case of contact with skin, wash skin with soap and water. Remove contaminated clothing and wash.
First Aid Ingestion:	If swallowed, rinse mouth and throat thoroughly with tap water. Drink water.
First Aid Inhalation:	If inhaled remove from contaminated area to fresh air. Report situation. Seek medical attention if allergic response is exhibited.
First Aid Advice:	The allergic symptoms are such -as runny nose, cough, sneeze, languor, slight attack of fever. Contact with powder causes irritation to sensitive skin and eyes. Any person who experiences any allergic or sensitive reactions to this powder should refrain from handling it again.

### SECTION 5: Fire-Fighting Measures

Fire Fighting Extinguishing Media:	Water, foam, dry chemical, carbon dioxide
Fire Fighting Chemical Hazards:	May cause allergic respiratory reaction
Fire Fighting Protective Actions:	Not available

### SECTION 6: Accidental Release Measures

For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering area. Do not touch or walk through spilled material. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
For emergency personnel:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Environmental precautions:	Avoid dispersal of spilled material.
Containment:	If a spill occurs: Spilled product should be removed immediately to avoid formation of dust. Vacuum or gently moisten with water and collect into a sealable container for disposal. Flush spill area with plenty of water (low pressure) into approved sewer. Avoid formation of aerosols and dusts. Ensure sufficient ventilation. Wash contaminated clothing.
Clean up:	Not available
Other issues:	Not available

## SECTION 7: Handling and Storage

Handling advice:	Never handle powder without appropriate personal protective equipment in accordance with Section 8. Avoid formation of dust. Avoid splashing and high pressure washing. Ensure good ventilation of the room when handling this product.
Hygiene:	Maintain good conditions of industrial hygiene
Storage:	Store in tightly sealed original containers in a cold (2°-8° C) area. Keep away from direct sunlight.
Conditions to avoid:	Not available
Control:	Not available
Maintain:	Not available
Other advice:	Not available

## SECTION 8: Exposure Controls/Personal Protection

Occupational exposure limits:	Not available
Biological limit values:	Not available
Control banding:	Not available
Appropriate engineering controls:	Adequate ventilation required for dusty conditions.
Eye/face protective equipment:	Protective glasses or eye shield recommended.
Skin protection:	Impermeable gloves recommended.
Respiratory protection:	None required under usual condition of use. However, if breathable dusts are present, a suitable dust mask is recommended (refer to NIOSH Criteria Guides to determine appropriate unit).
Thermal protection:	Not available
Special requirements:	Not available

## SECTION 9: Physical and Chemical Properties

Appearance:	Off-White/Light Yellow Powder
Odor:	Characteristic enzyme odor
Odor Threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	Not available
Solubility:	Soluble
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

## SECTION 10: Stability and Reactivity

Reactivity:	Not available
Stability:	Stable
Hazardous reactions:	Not available
Conditions to avoid:	Not available
Incompatible materials:	Not available
Hazardous decomposition products:	Not available

## SECTION 11: Toxicological Information

Acute toxicity:	Full Strength Bromelain – (LD50):> 50 g/Kg (Mouse)
Skin corrosion/irritation:	Skin irritant Category 3
Serious eye damage/irritation:	Eye irritant Category 2B
Respiratory or skin sensitization:	Respiratory sensitizer Category 1, Skin sensitizer Category 1B
Germ cell mutagenicity:	Not available
Carcinogenicity:	Not classified as a carcinogen by IARC, OSHA, or NTP
Reproductive toxicity:	Not expected to produce reproductive toxicity
STOT-single exposure:	Not available
STOT-repeated exposure:	Not available
Aspiration hazard	Not available

## SECTION 12: Ecological Information

Toxicity:	Not available
Persistence and degradability:	Product is readily biodegradable.
Bioaccumulative potential:	Not available
Mobility in soil:	Not available
Other adverse effects:	Not available

## SECTION 13: Disposal Considerations

Disposal Methods: No special disposal method required, except that in accordance with current local authority regulations

## SECTION 14: Transport Information

UN Number:	Not classified
UN Proper Shipping Name:	Not classified
Transportation Hazard Class:	Not classified
Packing Group:	Not classified
Transport Environmental Hazard:	Not classified
Transport Special Precautions:	Not classified
MARPOL:	Not classified

## SECTION 15: Regulatory Information

All components of this product are listed or exempt from listing on the TSCA Inventory.

## **SECTION 16: Other Information**

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