

# SAFETY DATA SHEET

## Section 1 – Product and Company Identification

Material Name - Chickpea Flour  
 Chemical Category - Food Ingredient

Manufacturer - Ardent Mills, LLC; Ardent Mills, ULC: Molinos de Puerto Rico, LLC  
 1875 Lawrence Street  
 Denver, CO 80202  
[www.ardentmills.com](http://www.ardentmills.com)

Telephone  
 General / Emergency - Call your Ardent Mills' Customer Service Rep

Preparation Date - 09/17/2019  
 Last Revision Date - 10/16/2022

## Section 2 – Hazards Identification

### EMERGENCY OVERVIEW

**Signal Word: Warning**

**Hazard Statements: May form combustible dust concentrations in air. The fine dust dispersed may ignite.**

Classification according to 29 CFR 1910, amended to conform to the United Nation's Globally Harmonized System of Classification and Labelling of Chemicals (GHS):

Hazards Not Otherwise Classified: Combustible Dust

## Section 3 – Composition/Information on Ingredients

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Chickpea flour	NDA	99 - 100%	NDA	Combustible Dust	Fine dust associated with these seeds may represent a combustible dust hazard

## Section 4 – First Aid Measures

**General Advice** - Contains chickpeas, and may trigger an allergic reaction.

**Inhalation** - Get medical attention if symptoms occur. Remove to fresh air.

**Skin** - No data available.

**Eye** - Get medical attention if symptoms occur. If contact with eyes directly, flush with gently flowing fresh water thoroughly.

**Ingestion** - Health injuries are not known or expected under normal use. If individual shows signs of sensitization, allergy, or other adverse effects, seek medical advice.

## Section 5 – Fire Fighting Measures

### Extinguishing Media

### Unsuitable Extinguishing Media

### Firefighting Procedures

- Dry chemical, CO<sub>2</sub>, foam or water fog.

- High pressure water spray may cause a combustible dust cloud.

- FIRES INVOLVING TANKS OR CAR/TRAILER LOADS: ALWAYS stay away from tanks engulfed in fire. LARGE FIRES: Move containers from fire area if can accomplish without risk.

### Unusual Fire & Explosion Hazards

- Fine dust (typically less than 420 microns) associated with this product may represent a combustible dust hazard. Ignition energy (Kst value) vary with particle size.

### Hazardous Combustion Products

- Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### Protection of Firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

### Flash Point

- Not relevant.

### Explosion Limits

#### Upper

- Not relevant

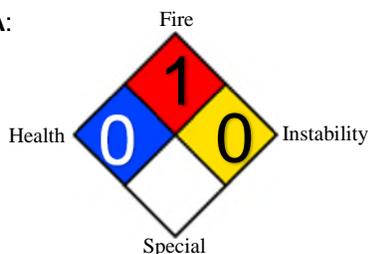
#### Lower

- Not relevant

### Auto-Ignition Temperature

- 390 to 500° F (199 to 260° C) Typical range for dusts associated with agricultural grains and seeds.

NFPA:



## Section 6 – Accidental Release Measures

### Personal Precautions

- Avoid dust formation. Use personal protective equipment.

### Emergency Procedures

- Keep unauthorized personnel away.

### Environmental Precautions

- Avoid run off to waterways and sewers.

### Containment/Clean-up Measures

- Carefully shovel or sweep up spilled material and place in suitable container.

## Section 7 – Handling and Storage

### Handling

- Follow good manufacturing practices when handling this product. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 61: Standard for the Prevention of Fires and Dust Explosions in the Agricultural and Food Processing Facilities

### Storage

- No data available.

### Special Packaging Materials

- None required.

### Incompatible Materials or

### Ignition Sources

- None known.

## Section 8 – Exposure Controls/Personal Protection

### Personal Protective Equipment

#### Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

#### Eye/Face

- Protective safety glasses recommended.

#### Hands

- No data available.

#### Skin/Body

- None required for normal handling.

#### General Industrial Hygiene Considerations

- Persons who handle grain products must follow good hygienic practices (i.e. wash frequently, and wear clean clothing)

### Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Exposure Limits/Guidelines			
	Result	NIOSH	United States – OSHA PEL
Milled Chickpea Flour	NDA	Not Listed	15 mg/m <sup>3</sup> (total) 5 mg/m <sup>3</sup> (resp) PNOR

### Exposure Control Notations

No data

### Exposure Limits Supplemental

No data

### Environmental Exposure Controls

No data available

## Section 9 – Physical and Chemical Properties

Material Description			
Physical Form	Powder	Appearance/Description	No data available.
Color	Light tan to white	Odor	No data available
Taste	No data available.	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
General Properties			
Bulk Density	Unknown		
Volatility – not relevant			
Flammability			
Auto-Ignition	390° to 500° F	MEC (per NFPA)	Unknown
Environmental – not relevant			

## Section 10 – Stability and Reactivity

### Stability

- Stable when kept dry under normal temperatures and pressures.

### Hazardous Polymerization

- Hazardous polymerization will not occur.

### Conditions to Avoid

- High humidity and/or wet conditions.

### Incompatible Materials

- None known.

### Hazardous Decomposition Products

- None known.

## Section 11 – Toxicological Information

**Other Information** - This product has not been tested as a separate entity. No specific toxicological data is available for the ingredients.

## Section 12 – Ecological Information

**Ecological Fate** - No data available  
**Persistence/Degradability** - Readily biodegradable  
**Bioaccumulation Potential** - No data available  
**Mobility in Soil** - No data available  
**Other Information** - Product has not been studied as distributed

## Section 13 – Disposal Considerations

**Product** - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 – Transportation Information

**DOT** - Not regulated as a hazardous material.  
**IATA** - Not regulated as a dangerous good.

## Section 15 – Regulatory Information

Not any known regulatory list for hazardous materials.

## Section 16 – Other Information

**Preparation Date** - 09/17/2019  
**Last Revision Date** - 10/16/2022  
**Disclaimer/Statement**

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