

# SAFETY DATA SHEET

## Section 1 – Product and Company Identification

Material Name - Wheat Bran  
 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 - 02/01/2016  
 Last Revision Date - 10/17/2022

## Section 2 – Hazards Identification

### Emergency Overview

**Hazard Category: Combustible Dust**

**Signal Word: Warning**

**Hazard Statements: May form combustible dust concentrations in air. The fine dust dispersed in air 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
Wheat bran	NDA	Up to 100%	NDA		

## Section 4 – First Aid Measures

**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** - Get medical attention if symptoms occur.

## Section 5 – Fire Fighting Measures

### Extinguishing Media

### Unsuitable Extinguishing Media

### Firefighting Procedures

### Unusual Fire & Explosion Hazards

### Hazardous Combustion Products

### Protection of Firefighters

### Flash Point

### Explosion Limits

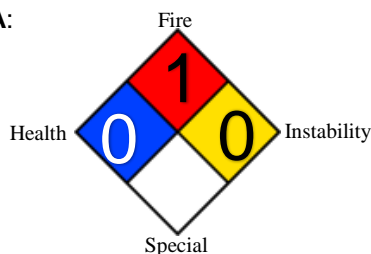
#### Upper

#### Lower

### Auto-Ignition Temperature

- 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.
- 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.
- None known
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Not relevant.
- Not relevant
- Not relevant
- 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

### Emergency Procedures

### Environmental Precautions

### Containment/Clean-up Measures

### Prohibited Materials

- No data available.
- Keep unauthorized personnel away.
- Avoid run off to waterways and sewers.
- Carefully shovel or sweep up spilled material and place in suitable container. Use appropriate Personal Protective Equipment (PPE)
- No data available.

**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	ACGIH	United States - California
Milled Wheat Products as Flour dust	TWAs	0.5 mg/m3 TWA (inhalable fraction) <i>as Flour dust</i>	0.5 mg/m3 PEL <i>as Flour dust</i>

- Exposure Control Notations**  
ACGIH – Milled Wheat Products as Flour dust: Sensitizers
- Exposure Limits Supplemental**  
ACGIH – Milled Wheat Products as Flour dust: TLV Basis – Critical Effects: (asthma, bronchitis, upper respiratory tract irritation)
- Environmental Exposure Controls**  
No data available

## Section 9 – Physical and Chemical Properties

<b>Material Description</b>			
<b>Physical Form</b>	Solid	<b>Appearance/Description</b>	No data available.
<b>Color</b>	Light Tan.	<b>Odor</b>	No data available.
<b>Taste</b>	No data available.	<b>Particulate Type</b>	Not relevant
<b>Particulate Size</b>	Not relevant	<b>Aerosol Type</b>	Not relevant
<b>Odor Threshold</b>	Not relevant	<b>Physical and Chemical Properties</b>	Not relevant
<b>General Properties</b>			
<b>Boiling Point</b>	Not relevant	<b>Melting Point</b>	Not relevant
<b>Decomposition Temperature</b>	Not relevant	<b>Heat of Decomposition</b>	Not relevant
<b>pH</b>	Not relevant	<b>Specific Gravity/Relative Density</b>	Not relevant
<b>Density</b>	Not relevant	<b>Bulk Density</b>	Not relevant
<b>Water Solubility</b>	Not relevant	<b>Solvent Solubility</b>	Not relevant
<b>Viscosity</b>	Not relevant		
<b>Volatility</b>			
<b>Vapor Pressure</b>	Not relevant	<b>Vapor Density</b>	Not relevant
<b>Evaporation Rate</b>	Not relevant	<b>VOC (Wt.)</b>	Not relevant
<b>VOC (Vol.)</b>	Not relevant	<b>Volatiles (Wt.)</b>	Not relevant
<b>Volatiles (Vol.)</b>	Not relevant		
<b>Flammability</b>			
<b>Flash Point</b>	Not relevant	<b>UEL</b>	Not relevant
<b>LEL</b>	Not relevant	<b>Auto-Ignition</b>	390 to 500 F(199 to 260 C)
<b>Self-Accelerating Decomposition Temperature (SADT)</b>	Not relevant	<b>Heat of Combustion (<math>\Delta H_c</math>)</b>	Not relevant
<b>Burning Time</b>	Not relevant	<b>Flame Duration</b>	Not relevant
<b>Flame Height</b>	Not relevant	<b>Flame Extension</b>	Not relevant
<b>Ignition Distance</b>	Not relevant		
<b>Environmental</b>			
<b>Half-Life</b>	Not relevant	<b>Octanol/Water Partition coefficient</b>	Not relevant
<b>Coefficient of water/oil distribution</b>	Not relevant	<b>Bioaccumulation Factor</b>	Not relevant
<b>Bioconcentration Factor</b>	Not relevant	<b>Biochemical Oxygen Demand BOD/BOD5</b>	Not relevant
<b>Chemical Oxygen Demand</b>	Not relevant	<b>Persistence</b>	Not relevant
<b>Degradation</b>	Not relevant		

## Section 10 – Stability and Reactivity

<b>Stability</b>	- Stable when kept dry under normal temperatures and pressures.
<b>Hazardous Polymerization</b>	- Hazardous polymerization will not occur.
<b>Conditions to Avoid</b>	- High humidity and/or wet conditions.
<b>Incompatible Materials</b>	- None known.
<b>Hazardous Decomposition Products</b>	- None known.

## Section 11 – Toxicological Information

<b>Other Information</b>	- This product has not been tested as a separate entity. No specific toxicological data is available for the ingredients.
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## Section 12 – Ecological Information

<b>Ecological Fate</b>	- No data available
<b>Persistence/Degradability</b>	- No data available
<b>Bioaccumulation Potential</b>	- No data available
<b>Mobility in Soil</b>	- No data available
<b>Other Information</b>	- Product has not been studied as distributed

## Section 13 – Disposal Considerations

<b>Product</b>	- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
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## Section 14 – Transportation Information

<b>DOT</b>	- Not regulated as a hazardous material.
<b>IATA</b>	- Not regulated as a dangerous good.

## Section 15 – Regulatory Information

Not any known regulatory list for hazardous materials.

## Section 16 – Other Information

<b>Preparation Date</b>	- 02/01/2016
<b>Last Revision Date</b>	- 10/17/2022
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