

# SAFETY DATA SHEET

## Section 1 – Product and Company Identification

Material Name - Milled Wheat Flour  
 Chemical Category - Food Ingredient

Manufacturer - Ardent Mills, LLC; Ardent Mills, ULC: Molinos de Puerto Rico, LLC  
 1875 Lawrence Street  
 Denver, CO 80202  
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Telephone - Call your Ardent Mills' Customer Service Rep  
 General  
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Preparation Date - 10/01/2014  
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## Section 2 – Hazards Identification

### Emergency Overview

**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 Nations' Globally Harmonized System of Classification and Labelling of Chemicals (GHS):

Hazards Not Otherwise Classified Combustible Dust

## Section 3 – Composition/Information on Ingredients

Non-Hazardous Components					
Chemical Name	CAS-No	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Wheat flour	130498-22-5	100%	NDA		

## Section 4 – First Aid Measures

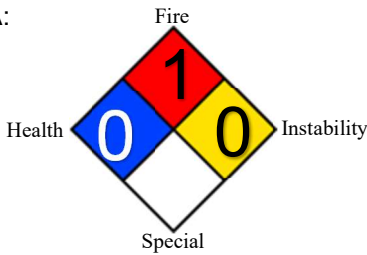
**Inhalation** - Get medical attention if symptoms occur. Remove to fresh air.  
**Skin** - No data available.  
**Eye** - Get medical attention if symptoms occur. If contact with eyes directly, flush with gently flowing fresh water thoroughly.  
**Ingestion** - Get medical attention if symptoms occur.

## Section 5 – Fire Fighting Measures

**Extinguishing Media** - Dry chemical, CO2, foam or water fog.  
**Unsuitable Extinguishing Media** - High pressure water spray may cause a combustible dust cloud.  
**Firefighting Procedures** - 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

<b>Hazardous Combustion Products</b>	with particle size.
<b>Protection of Firefighters</b>	- None known
<b>Flash Point</b>	- Wear positive pressure self-contained breathing apparatus (SCBA).
<b>Explosion Limits</b>	- Not relevant.
<b>Upper</b>	- Not relevant
<b>Lower</b>	- Not relevant
<b>Auto-Ignition Temperature</b>	- 390 to 500° F (199 to 260° C)
<b>Response</b>	- When responding to explosion or any subsequent fire, DO NOT use high pressure extinguishing agent as this may spread the dust and may create an additional ignitable dust cloud.

**NFPA:**



**Section 6 – Accidental Release Measures**

<b>Personal Precautions</b>	- No data available.
<b>Emergency Procedures</b>	- Keep unauthorized personnel away.
<b>Environmental Precautions</b>	- Avoid run off to waterways and sewers.
<b>Containment/Clean-up Measures</b>	- Carefully shovel or sweep up spilled material and place in suitable container. Use appropriate Personal Protective Equipment (PPE)
<b>Prohibited Materials</b>	- No data available.

**Section 7 – Handling and Storage**

<b>Handling</b>	- 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
<b>Storage</b>	- No data available.
<b>Special Packaging Materials</b>	- None required.
<b>Incompatible Materials or Ignition Sources</b>	- None known.

**Section 8 – Exposure Controls/Personal Protection**

<b>Personal Protective Equipment</b>	
<b>Respiratory</b>	- 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.
<b>Eye/Face</b>	- Protective safety glasses recommended.
<b>Hands</b>	- No data available.
<b>Skin/Body</b>	- 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.

<b>Exposure Limits/Guidelines</b>			
	<b>Result</b>	<b>ACGIH</b>	<b>United States - California</b>
Milled Wheat Products as Flour dust	TWAs	0.5 mg/m <sup>3</sup> TWA (inhalable fraction) <i>as Flour dust</i>	0.5 mg/m <sup>3</sup> 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 to white	<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

- 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

### Potential Health Effects

#### Inhalation

Acute (immediate) – May cause irritation

Chronic (delayed) – According to ACGIH, repeated and prolonged exposure to flour may cause lung effects referred to as “Baker’s Lungs” or allergic sensitization resulting in what is referred to as “Baker’s Asthma”.

#### Skin

Acute (immediate) – Under normal conditions of use, no health effects are expected.

Chronic (delayed) – Under normal conditions of use, no health effects are expected.

#### Eye

Acute (immediate) – May cause irritation

Chronic (delayed) – Under normal conditions of use, no chronic effects are expected.

#### Ingestion

Acute (immediate) – No effects are expected for most people. Listed as food allergen.

Chronic (delayed) – Under normal conditions of use, no chronic effects are expected.

## Section 12 – Ecological Information

- Ecological Fate** - No data available
- Persistence/Degradability** - No data available
- 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** - 10/01/2014  
**Last Revision Date** - 05/20/2022  
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