

SAFETY DATA SHEET

Section 1 – Product and Company Identification

Material Name - Milled Wheat Products (including flour, midds, bran, & germ)
 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

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

Preparation Date - 10/01/2014
 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 in air may ignite.

Classification according to 29 CFR 1910, amended to conform to the United Nation's Globally Harmonized System of Classification and Labeling 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 flour	NDA	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

- Dry chemical, CO₂, 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

Protection of Firefighters

Flash Point

Explosion Limits

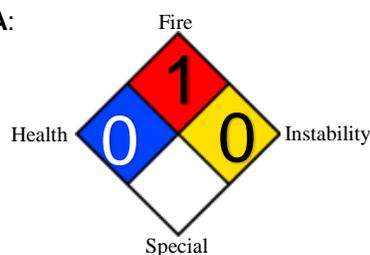
Upper

Lower

Auto-Ignition Temperature

- None known
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Not relevant.
- Not relevant
- Not relevant
- 390 to 500° F (199 to 260° C)

NFPA:



Section 6 – Accidental Release Measures

Personal Precautions

Emergency Procedures

Environmental Precautions

Containment/Clean-up Measures

Prohibited Materials

- Avoid dust formation. Use personal protective equipment.
- Keep unauthorized personnel away.
- Avoid run off to waterways and sewers.
- Carefully shovel or sweep up spilled material and place in suitable container.
- 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

Material Description			
Physical Form	Solid	Appearance/Description	No data available.
Color	Light tan to white	Odor	Natural Grain odor of wheat
Taste	No data available.	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	Not relevant	Physical and Chemical Properties	Not relevant
General Properties			
Boiling Point	Not relevant	Melting Point	Not relevant
Decomposition Temperature	Not relevant	Heat of Decomposition	Not relevant
pH	Not relevant	Specific Gravity/Relative Density	Not relevant
Density	Not relevant	Bulk Density	Not relevant
Water Solubility	Not relevant	Solvent Solubility	Not relevant
Viscosity	Not relevant		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	VOC (Wt.)	Not relevant
VOC (Vol.)	Not relevant	Volatiles (Wt.)	Not relevant
Volatiles (Vol.)	Not relevant		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Auto-Ignition	390 to 500 F(199 to 260 C)
Self-Accelerating Decomposition Temperature (SADT)	Not relevant	Heat of Combustion (ΔH_c)	Not relevant
Burning Time	Not relevant	Flame Duration	Not relevant
Flame Height	Not relevant	Flame Extension	Not relevant
Ignition Distance	Not relevant		
Environmental- Not Relevant			

Section 10 – Stability and Reactivity

Stability

Hazardous Polymerization

Conditions to Avoid

Incompatible Materials

Hazardous Decomposition Products

- Stable when kept dry under normal temperatures and pressures.
- Hazardous polymerization will not occur.
- High humidity and/or wet conditions.
- None known.
- 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 - 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

Revised Date - 10/01/2016
Last Revision Date - 10/16/2022
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