

# SAFETY DATA SHEET

# Section 1 – Product and Company Identification

Material Name Chemical Category	- Wheat Middlings - Food Ingredient
Manufacturer	- Ardent Mills, LLC; Ardent Mills, ULC: Molinos de Puerto Rico, LLC
	1875 Lawrence Street Denver, CO 80202 <u>www.ardentmills.com</u>
Telephone General/Emergency	- Call your Ardent Mills' Customer Service Rep
Preparation Date Last Revision Date	- 10/01/2014 - 09/24/2020

Section 2 – Hazards Identification				
	Emergency Overview WARNING			
Мау	form combustible dust concentrations in air (during processing).			
Prevention	<ul> <li>Avoid generating fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source</li> </ul>			
Response	<ul> <li>When responding to explosion or any subermsequent fire, DO NOT use high pressure extinguishing agent as this may spread the dust and may create an additional ignitable dust cloud.</li> </ul>			
Storage/Disposal	<ul> <li>Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.</li> </ul>			
Storage/Disposal - Dispose of content and/or container in accordance with local, regional, national, and/or				
NFPA: Fir	e			



## **Potential Health Effects**

#### Inhalation

Acute (immediate) – May cause irritation

Chronic (delayed) – None known

#### 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 3 – Composition/Information on Ingredients

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Wheat middlings	NDA	100%	NDA		

## **Section 4 – First Aid Measures**

Inhalation Skin Eve	<ul> <li>Get medical attention if symptoms occur. Remove to fresh air.</li> <li>No data available.</li> <li>Get medical attention if symptoms occur. If contact with eyes directly, flush with gently</li> </ul>
Ingestion	flowing fresh water thoroughly. - Get medical attention if symptoms occur.

## Section 5 – Fire Fighting Measures

Extinguishing Media Unsuitable Extinguishing Media Firefighting Procedures	<ul> <li>Dry chemical, CO2, foam or water fog.</li> <li>High pressure water spray may cause a combustible dust cloud.</li> <li>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.</li> </ul>
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	- None known
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	- No data available

# Section 6 – Accidental Release Measures

Personal Precautions Emergency Procedures Environmental Precautions Containment/Clean-up Measures	<ul> <li>No data available.</li> <li>Keep unauthorized personnel away.</li> <li>Avoid run off to waterways and sewers.</li> <li>Carefully shovel or sweep up spilled material and place in suitable container. Use appropriate Personal Protective Equipment (PPE)</li> </ul>	
Prohibited Materials	- 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 Incompatible Materials or	- None required.
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 is 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	<ul> <li>Persons who handle grain products must follow good hygienic practices (i.e. wash frequently, and wear clean clothing)</li> </ul>
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
Wheat	TWAs	0.5 mg/m3 TWA (inhalable fraction)	0.5 mg/m3 PEL
middlings	_	as Flour dust	as Flour dust

#### **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/Brown	Odor	No data available.
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
рН	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 (ΔHc)	Not relevant
Burning Time	Not relevant	Flame Duration	Not relevant
Flame Height	Not relevant	Flame Extension	Not relevant
Ignition Distance	Not relevant		
Environmental			
Half-Life	Not relevant	Octanol/Water Partition coefficient	Not relevant
Coefficient of water/oil distribution	Not relevant	<b>Bioaccumulation Factor</b>	Not relevant
Bioconcentration Factor	Not relevant	Biochemical Oxygen Demand BOD/BOD5	Not relevant
Chemical Oxygen Demand	Not relevant	Persistence	Not relevant
Degradation	Not relevant		

Section 10 – Stability and Reactivity

Stability	- Stable when kept dry under normal temperatures and pressures.
Hazardous Polymerization	<ul> <li>Hazardous polymerization will not occur.</li> </ul>
Conditions to Avoid	<ul> <li>High humidity and/or wet conditions.</li> </ul>
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 Persistence/Degradability	- No data available - 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 IATA - Not regulated as a hazardous material.

- Not regulated as a dangerous good.

# Section 15 – Regulatory Information

Not any known regulatory list for hazardous materials.

### Section 16 – Other Information

Preparation Date Last Revision Date Disclaimer/Statement	- 10/01/2014 - 09/24/2020
Of Liability	- This Safety Data Sheet is provided as a courtesy to Ardent Mills' customers. The information provided herein is provided in good faith and is believed accurate and reliable as of the date indicated. However, no representation, warranty, or guarantee of any kind, expressed or implied, is made as to the accuracy, reliability, correctness, or completeness. Neither the above named supplier nor any of its subsidiaries assumes any responsibility and/or liability for any loss, damage, injury, expense, direct or consequential, arising out of the use of the information contained herein. Final determination of the completeness and suitability of such information, and the suitability and safe conditions for use of any material is the sole responsibility of the user and user assumes all liability for loss, damage, injury, expense arising out of the improper use of this material. No warranty, expressed or implied, regarding the material described herein shall be created by or inferred from any statement or omission in this SDS.