



Section 1 - Product and Company Identification

Material Name - Milled Rye Products (includes all granulations, such as but not limited to, Flour, Meal, and

Chops)

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 - Call your Ardent Mills' Customer Service Rep

Emergency - 1-800-424-9300 CHEMTREC

Preparation Date - 11/24/2015 Last Revision Date - 10/04/2022

Section 2 - Hazards Identification

Emergency Overview

Signal Word: Warning

Hazard Statement: 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

Hazardous Components						
Chemical Name	Identifier	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments	
Milled Rye products	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

Auto-Ignition Temperature

- None known
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Not relevant.
- Upper Not relevant
 Lower Not relevant
 - 390 to 500° F (199 to 260° C) (typical ignition range for milled grain products)

Response

-When responding to explosion or subsequent fire, DO NOT use high pressure extinguishing agent as this may spread the dust and may create an additional ignitable dust cloud.



Section 6 – Accidental Release Measures

Personal Precautions
Emergency Procedures
Environmental Precautions
Containment/Clean-up Measures

- 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.

Prohibited Materials

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 **Special Packaging Materials**

Incompatible Materials or Ignition Sources

- No data available. - None required.

- 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 Hands Skin/Body - Protective safety glasses recommended. - No data available.

General Industrial Hygiene

- None required for normal handling.

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 Rye Flour Products	TWAs	No established limit	No established limit			

Exposure Control Notations

ACGIH – No data available

Exposure Limits Supplemental

ACGIH - No data available

Environmental Exposure Controls

No data available

Section 9 – Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	No data available.
Color	White to light tan	Odor	Slight Cereal
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	Bioaccumulation Factor	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

- Hazardous polymerization will not occur.

- 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 availablePersistence/Degradability- No data availableBioaccumulation Potential- No data availableMobility 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

- 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 - 11/24/2015 Last Revision Date - 10/04/2022 Disclaimer/Statement of Liability

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