

Safety Data Sheet for Wheat Flour

SECTION 1: IDENTIFICATION

Product Identification: **Wheat Flour**
Intended Use: **Food Manufacturing**
Manufacturer: **Miller Milling Company**
Address: **10050 Crosstown Circle, Suite 350**
Eden Prairie, MN 55344
Phone: **(952) 826-6331**
SDS Date of Preparation: **11/01/2024**

SECTION 2: HAZARD IDENTIFICATION

Classification: Combustible dust/respiratory hazard if small particles are generated during milling processing, handling or by other means.

GHS Symbol:



Signal Word: Warning

Under certain conditions and concentrations, dust can be combustible. (Minimum Ignition Concentration – 60 g/m³ **)

Hazard Statement: Dust explosion hazard. May form combustible dust-air mixtures.

Precautionary Statement(s): Dust can aggravate pre-existing respiratory conditions such as allergies or asthma. Wheat is a known allergen. Nuisance dust can cause irritation in eyes and on skin.

OSHA/GHS Label Elements: Not applicable due to FDA Labeling Exemption.

SECTION 3: COMPOSITION

Component: Wheat Flour

Weight %: 99-100%

CAS-No: 130498-22-5

North American Hazard Indicator: None known

SECTION 4: FIRST AID MEASURES

Inhalation: Remove individual from exposure and move to fresh air.

Ingestion: Health injuries are not known or expected under normal use. If individual shows signs of sensitization, allergy or other adverse affects, seek immediate medical advice.

Skin: Wash with soap and water.

Eyes: Flush with water, if irritation persists contact a physician.

General Advice: Contains wheat, and may trigger an allergic reaction.

SECTION 5: FIREFIGHTING MEASURES

** Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities"

Flammable Properties: Powdered material may form explosive dust-air mixtures. Fine dust dispersed in air may ignite. Risk of ignition followed by flame propagation or a secondary explosion, should be prevented by avoiding accumulation of dust such as on floors and ledges.

Suitable Extinguishing Media: Water Spray. Carbon dioxide (CO₂). Dry chemical.

Unsuitable Extinguishing Media: None known

Hazardous Combustion Products:

Carbon monoxide (CO), Carbon dioxide (CO₂).

Specific Hazards Arising from the Chemical: Keep product and empty container away from heat and sources of ignition.

Sensitivity to mechanical impact: No information available.

Sensitivity to static discharge: Yes (as dust).

NFPA:

Health: **0**

Stability and Reactivity: **0**

Flammability: **1**

Physical hazard: **None known**



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid dust formation. Use personal protective equipment.

Spillage: Clean up by brushing down, broom sweeping, shoveling or appropriately rated vacuum. Discard by local, state or federal regulations.

SECTION 7: HANDLING AND STORAGE

Handling: Do not handle in a way that creates excess dust, as it can become flammable/combustible in concentration with an ignition source ** Ensure adequate ventilation.

Storage: Store in cool, dry, well-ventilated environment.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH TLV: TWA 0.5 mg/m³

Particulates Not Otherwise Regulated (PNOR)

OSHA PEL – Total Dust: 15 mg/m³

OSHA PEL – Inhalable Fraction: 5 mg/m³

Cal/OSHA PEL – Total Dust: 10 mg/m³

Cal/OSHA PEL – Inhalable Fraction: 0.5 mg/m³

Eyes: Safety glasses or goggles if needed.

Skin: Cover exposed skin if necessary.

Hygienic: Handle in accordance with good personal and industrial hygiene and safety practices.

Respiratory: Dust masks or NIOSH/MSAA approved respirators that are rated for fine dust.

Ventilation: Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

** Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities"

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to cream powder.

Odor: Natural grain odor of wheat.

Odor Threshold: N/A

Boiling Point: N/A

Vapor Pressure: N/A

Bulk Density: 32-40 lbs/cu. ft

Solubility: YES, in water.

Specific Gravity: N/A

Flash Point: N/A

Evaporation Rate: N/A

Vapor Density: N/A

Explosion Limits: 60 g/m³

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.^{[1][SEP]}

Possibility of Hazardous Reactions: None under normal processing.

Conditions to Avoid: Avoid dust formation.^{[1][SEP]} Avoid high humidity or wet storage conditions.

Incompatible Materials: No materials to be especially mentioned.

Hazardous Decomposition Products: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	Based on available data, no evidence of acute toxicity. (Long history of safe use in food).
Skin corrosion/irritation	Based on available data, not, or only slightly irritating.
Serious eye damage/eye irritation	Based on available data, no evidence of serious eye damage / irritation.
Respiratory or skin sensitization	Based on available data, not expected to be a skin or respiratory sensitizer.
Germ cell mutagenicity	Not classified. (Long history of safe use in food).
Carcinogenicity	No evidence of carcinogenicity.
Reproductive Toxicity	Not classified. (Long history of safe use in food).
STOT – single exposure	No evidence of toxicity.
STOT – repeated exposure	No evidence of toxicity.
Aspiration hazard	Based on available data, no known aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste-water treatment plants.

Persistence/Degradability: Readily biodegradable.

Mobility: Dispersible in water.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.

Packaging: Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: TRANSPORT INFORMATION

DOT Shipping Description: N/A- Not hazardous for transportation.

SECTION 15: REGULATORY INFORMATION

- Federal Regulations

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Ozone Depleting Substances: No Class I or Class II material is known to be used in the manufacture of, or contained in, product.

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

SARA 302: Section 302 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 302.

SARA 311/312 Hazardous Categorization:

Acute Health Hazard: No

Chronic Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 63): This product is not known to contain any Hazardous Air Pollutants "HAPs."

- State Regulations

State Right-to-Know: No known components subject to "Right-To-Know" legislation in the following states where Miller Milling Company manufactures this product: California, Minnesota, Texas, and Virginia.

SECTION 16: OTHER INFORMATION

Revision Date: 11/01/2024

Reason for Revision: Periodic review. Address change only. This version replaces all previous versions.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.
