

MSDS - Wheat Flour

Material Safety Data Sheet

May be used with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.	ADM MILLING 5020 SHREVE AVE ST LOUIS MO 63115	U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration
IDENTITY - Wheat Flour		
SECTION I - GENERAL		
Telephone Number for Information 314-385-9100		
Signature of Preparer <i>Paul J Rachubka</i>	Date Prepared <i>March 23, 1992</i>	
SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION		
Not applicable for wheat flour, bran, or germ.		
SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS		
Solubility in Water Yes	Specific Gravity (H ₂ O = 1) Bulk Density 32 to 40 lbs ft ³	
Appearance and Odor Creamy white color, natural wheat odor, wheat source, fineness 98% through U.S. 70 sieve.		
Proximate analysis: .30-1.5% ash, 6-15% protein, 7-14% moisture.		
SECTION IV - FIRE and EXPLOSION DATA		
Auto Ignition Temperature 380° C	Flammable Limits LEL Approximately 50g/m ³ (.05 oz/ft ³)	
Extinguishing Media Determined by surrounding fire. Use water fog, foam, CO, or dry chemical for extinguishing.		
Special Fire Fighting Procedures Water, fine spray or physical removal of smoldering material.		
Unusual Fire and Explosion Hazards Dust cloud potentially explosive (difficult to ignite, slow burning) Explosibility index 3.8		
Explosibility index 3.8; Ignition sensitivity 2.1; Explosion severity 1.8 (Source: U.S. Department of Interior Bureau of Mines)		
SECTION V - REACTIVITY DATA		

Stability	Unstable	Conditions to Avoid: Grain products are combustible but not generally flammable (i.e. combustion usually requires the continuous application of ignition to support flames). The dispersal of grain products into confined atmospheres in high density (over 58 grams per cubic meter) could produce product and air mixture that are ignitable or explosive.
	Stable Yes	

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry: Inhalation Ingestion -
 Unknown as edible food product; 10 mg/m³ total dust or 5 mg/m³ respirable dust as nuisance particle.

Health Hazards (Acute and Chronic)
 Possible mild irritation of lungs, especially with pre-existing allergies.
 Grain products are produced for human consumption, and the reference texts list no toxicological effects from ingestion. Asthmatics and allergenic or hypersensitive persons may be sensitive to grain product dust. Mild coughing may result.
 Eye contact with grain product dust may be irritating.

Emergency and First Aid Procedures
 Ingestion - Not Applicable
 Inhalation - remove to fresh air if allergic.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken if material is released or spilled
 Clean up - vacuum, scoop, shovel, or sweep, keep dust to a minimum.

Waste disposal method
 Landfill or similar method; material is biodegradable, follow federal, state, or local regulations.

Precautions to be taken in handling and storing
 Keep dust to a minimum, keep dust away from ignition sources (open flames, sparks or high temperatures).

SECTION VIII - CONTROL MEASURES

Respiratory Protection
 Use a NIOSH approved particulate respirator if respirable dust generation occurs or is anticipated during product use.

Ventilation	Local Exhaust If dust is a problem
	Mechanical Desirable

Protective Gloves Not Applicable	Eye Protection Goggles, if necessary
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Other Protective Clothing or Equipment
 None

Work/Hygienic Practices
 Good Manufacturing Practices