



(Material) Safety Data Sheet

Transport Symbol	WHMIS	NFPA	Personal Protective Equipment
Not controlled	Not controlled		

Original Preparation Date: 06-Aug-2010

Revision Date: 07-Jan-2013

Revision Number: 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product Name:

Wheat Flour

Product Code:

MILLING-WF (FOOD ONLY)

Use of the Substance / Preparation:

Food Ingredient

Contact Manufacturer:

ADM Milling Co.
8000 W. 110th Street
Overland Park, KS 66210

2. HAZARDS IDENTIFICATION

Emergency Overview

Warning. Fine dust dispersed in air may ignite. Product dust may cause mild, mechanical irritation.

Appearance

Light cream

Physical State

Powder

Odor

Cereal

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

OSHA / GHS Label Elements

Signal Word: Warning

Hazard Statement(s): May form combustible dust concentrations in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Non-hazardous Components

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Wheat flour	130498-22-5	99-100	None known

4. FIRST AID MEASURES

Description of first aid measures

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

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin Contact Rinse with water.

Inhalation 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 medical advice.

Most important symptoms and affects, both acute and delayed

Eyes Contact with eyes may cause mechanical irritation.

Skin Product dust may cause mild, mechanical irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Inhalation Dust may cause irritation of respiratory tract. Susceptible persons may develop baker's asthma. Possible sensitisation for wheat allergen sufferers and asthmatics.

Ingestion May produce an allergic reaction.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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 secondary explosions should be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Extinguishing media

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

Unsuitable Extinguishing Media None known.

Special hazards arising from the substance or mixture

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).

Advice for fire-fighters

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 0
Flammability 1

Stability and Reactivity 0
Physical hazard None known



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid dust formation. Use personal protective equipment.

Environmental Precautions

No special environmental precautions required.

Methods for Clean-up

Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid dust formation in confined areas. Fine dust dispersed in air may ignite. Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities". Ensure adequate ventilation.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	MEXICO	NIOSH
Flour dust	[SEN] TWA: 0.5 mg/m ³ inhalable fraction			

Engineering Measures

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.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

Personal Protective Equipment**Eye/face Protection.**

If exposed to airborne dust, appropriate safety glasses with side-shields or safety goggles are recommended.

Skin and Body Protection

Special protective equipment is generally not required. Protective clothing and gloves may be worn to reduce the potential of mechanical irritation.

Respiratory Protection

If exposed to airborne dust, use appropriate NIOSH approved (or equivalent) respiratory protection.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light cream
Physical State	Powder
Odor	Cereal
Odor Threshold	Not applicable
pH	Not applicable
Flash Point	Not applicable
Autoignition Temperature	Not applicable
Boiling point	Not applicable
Melting/Freezing Point	Not applicable
Decomposition temperature	No information available
Oxidizing Properties	Not applicable
Flammability Limits in Air	Not applicable
Explosion Limits	Lower: 0.05 oz./cu.ft.
Molecular Weight	Not applicable
Water Solubility	Dispersible
Evaporation Rate	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	No information available
Bulk Density	32 - 40 lbs./cu.ft.
Partition Coefficient (n-octanol/water)	No information available

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Avoid dust formation.

Incompatible Materials No materials to be especially mentioned.

Hazardous Decomposition Products None known

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

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 sensitisation	Based on available data, not expected to be a skin or respiratory sensitiser.
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.

Potential health effects

Eyes	Contact with eyes may cause mechanical irritation.
Skin	Product dust may cause mild, mechanical irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Inhalation	Dust may cause irritation of respiratory tract. Susceptible persons may develop baker's asthma. Possible sensitisation for wheat allergen sufferers and asthmatics.
Ingestion	May produce an allergic reaction.

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.

13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

Waste Disposal Methods	Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.
Contaminated Packaging	Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

Domestic transport regulations (USA)

DOT Not regulated

Domestic transport regulations (Canada)

TDG Not regulated

Domestic transport regulations (Mexico)

MEX Not regulated

International transport regulations

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS ISHL	CHINA	PICCS	KECL	NZLoC
Wheat flour	No	Not determined	No	No	No	No	No	Yes	No	No	Yes

The CAS registry number(s) indicated herein may not be suitable for determining compliance with DSL listing requirements

USA**Federal Regulations****Ozone Depleting Substances:**

No Class I or Class II material is known to be used in the manufacture of, or contained in, this 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 HAPS.

State Regulations**State Right-to-Know**

No known components subject to "Right-To-Know" legislation in the following States: Massachusetts. Minnesota. New Jersey. Pennsylvania.

Canada**WHMIS Product Classification**

Exempt: Food Product per Hazardous Products Act Part II Controlled Products Section 12.

WHMIS Ingredient Disclosure List IDL

No known component is listed on the WHMIS ingredients disclosure list.

(NPRI) Canadian National Pollutant Release Inventory

No known component is listed on NPRI.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

Mexico**Mexico - Grade**

Slight risk, Grade 1

16. OTHER INFORMATION

Prepared By: ADM Milling Co.
Original Preparation Date: 06-Aug-2010
Revision Date: 07-Jan-2013
Revision Number: 1
Reason for revision: New SDS format. Hazard classification updated. This version replaces all previous versions.

Abbreviations and acronyms

- ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values
- AICS - Australian Inventory of Chemical Substances (Australia)
- CAS - Chemical Abstract Service
- CHINA - Chinese Inventory of Existing Chemical Substances (China)
- DOT - U.S. Department of Transportation
- DSL - Domestic Substance List (Canada)
- EINECS - European Inventory of Existing Commercial Chemical Substances (EU)
- ELINCS - European List of Notified Chemical Substances (EU)
- ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan)
- GHS - Globally Harmonized System of Classification and Labelling of Chemicals
- IATA - International Air Transport Association Dangerous Goods Regulations
- ICAO - International Civil Aviation Organisation
- ICL - In Commerce List (Canada)
- IMDG - International Maritime Dangerous Goods Code
- IMO - International Maritime Organization
- KECL - Korean Existing and Evaluated Chemical Substances (Korea)
- MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported
- MEXICO - Mexico Occupational Exposure Limits
- NDSL - Non Domestic Substances List (Canada)
- NFPA - National Fire Protection Association
- NIOSH - National Institute of Occupational Safety and Health
- NZLoC - New Zealand Inventory of Chemicals (New Zealand)
- OSHA - Occupational Safety & Health Administration
- OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits
- PICCS - Inventory of Chemicals and Chemical Substances (Philippines)
- [SEN] - Sensitizer notation. May reflect risk of dermal and/or inhalation sensitization (consult ACGIH documentation)
- TDG - Transportation of Dangerous Goods (Transport Canada)
- TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA)
- TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)
- WHMIS - Workplace Hazardous Materials Information System

The information provided on this (M)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.

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