



Safety Data Sheet

Original Preparation Date: 07-Dec-2009

Revision Date: 24-Oct-2017

Revision Number: 1

1. Identification

Product Name:

Standard Wheat Midds

Synonyms:

AAFCO 93.5 Wheat Middlings- not more than 11% crude fiber

Product Code:

MILLING - WM

Use of the Substance / Preparation:

Animal Feed

Contact Manufacturer:

ADM Milling Co.

8000 W. 110th Street

Overland Park, KS 66210

Phone Number: 913-491-9400, 1-800-422-1688

Emergency response telephone number:

Chemtrec 1-800-424-9300 (CCN 1635)

2. Hazard(s) identification

Emergency Overview

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

Appearance

Light brown

Physical State

Powder

Odor

Cereal

This product IS classified as hazardous according to 29 CFR 1910.1200 (known as HCS 2012), amended to conform to the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

OSHA Defined Hazard(s)

Combustible Dust

Label Elements

NOTE: While label elements are provided within this SDS, under 29 CFR 1910.1200 (b)(5), products already subject to the labeling requirements of other specified federal acts, may be exempt from OSHA labeling.

Signal Word:

Warning

Hazard Statement(s):

May form combustible dust concentrations in air.

3. Composition/information on ingredients

Common Name

Standard Wheat Midds

Description

Co-product of flour milling, comprising of several grades of granular particles containing different proportions of endosperm, bran, germ, each of which contains different levels of crude fiber.

CAS-No

Not available.

4. First-aid measures

Description of first aid measures

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.

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

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. 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), Nitrogen oxides (NO_x), Acrolein.

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, Protective Equipment, and Emergency Procedures

Avoid dust formation. Use personal protective equipment.

Environmental Precautions

No special environmental precautions required.

Methods and Materials for Containment and Cleaning 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. Ensure adequate ventilation. Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities". Refer to 29CFR 1910.272 Grain Handling Standard.

Storage

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

8. Exposure controls/Personal protection

Exposure Limits

Where exposure limits have not been established for specific components of this material, please observe the OSHA and ACGIH established limits for particulates not otherwise classified (PNOC). OSHA PEL: [15 mg/m³ (total dust) 8-hr TWA], [5 mg/m³ (respirable) 8-hr TWA]. ACGIH TLV: [10 mg/m³ (inhalable) 8-hr TWA], [3 mg/m³ (respirable) 8-hr TWA].

Biological Limit Values

No biological limit values have been listed for the component(s) of this product.

Appropriate Engineering Controls 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, at or above the noted exposure limits, use appropriate NIOSH approved (or equivalent) respiratory protection.



9. Physical and chemical properties

Appearance	Light brown
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	Insoluble
Evaporation Rate	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Specific Gravity / Relative Density	No information available
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 Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Acrolein.

11. Toxicological information

Information on toxicological effects

Acute toxicity	Based on available data, no evidence of acute toxicity. (Long history of safe use in feed).
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 feed).
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	Not classified (Long history of safe use in feed)
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. 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	Biodegradable.
Mobility	The product is insoluble and floats on water.
PBT and vPvB assessment	No information available.
Other adverse effects	Nothing specific known.

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**

As animal feed, this product is exempted from the following inventories: U.S.A. (TSCA).

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.

CERCLA/SARA 103-302

Sections 103-302 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 103-302.

SARA 311/312 Hazardous Categorization

Refer to the OSHA hazard classification(s) provided in section 2 of this SDS.

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**(NPRI) Canadian National Pollutant Release Inventory**

No known component is listed on NPRI.

This product has not yet been fully evaluated and classified for Canada**Mexico****Mexico - Grade**

Slight risk, Grade 1

16. Other information**Prepared By:**

ADM Milling Co.

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07-Dec-2009

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Reason for revision: This data sheet contains changes from the previous version in section(s) 1, 2, 15. This version replaces all previous versions.

Abbreviations and acronyms

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

A4 - Not classifiable as a human carcinogen

ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values

CAS - Chemical Abstract Service

Ceiling - Ceiling Limit Value: Concentrations that should never be exceeded at any given time (instantaneous)

CHINA - Chinese Inventory of Existing Chemical Substances (China)

CLP - Classification, Labelling and Packaging, Regulation (EC)1272/2008

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

Delisted - Substances Delisted from Report on Carcinogens

DNEL - Derived No Effect Level

DOT - U.S. Department of Transportation

DSL - Domestic Substance List (Canada)

EC - European Commission

EC No. - European Community number

EC50 - Half maximal effective concentration

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)

EPCRA - Emergency Planning and Community Right-to-Know Act of 1986 (USA)

FOSFA - The Federation of Oils, Seeds and Fats Associations

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association Dangerous Goods Regulations

IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

ICAO - International Civil Aviation Organisation

ICL - In Commerce List (Canada)

IDLH - Immediately Dangerous to Life or Health

IMDG - International Maritime Dangerous Goods Code

IMO - International Maritime Organization

IUB - International Union of Biochemistry and Molecular Biology

KECL - Korean Existing and Evaluated Chemical Substances (Korea)

Known - Known Carcinogen

LC50 - Lethal concentration that produces fatalities in 50% of a given test population

LD50 - Median lethal dose of a given test population

Marpol - International Convention for the Prevention of Pollution From Ships

MEPC - Marine Environment Protection Committee

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

NOAEL - No Observed Adverse Effect Level

NTP - National Toxicology Program

NZIoC - New Zealand Inventory of Chemicals (New Zealand)

OECD - Organisation for Economic Co-operation and Development

OSHA - Occupational Safety & Health Administration

OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits

PICCS - Inventory of Chemicals and Chemical Substances (Philippines)

PNEC - Predicted No-Effect Concentration

Present - Carcinogen or potential carcinogen to be identified under OSHA's Hazard Communication Standard

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

SEN - Sensitizer notation. May reflect risk of dermal and/or inhalation sensitization (consult ACGIH documentation).

Skin notation - Potential for cutaneous absorption

STEL - Short Term Exposure Limit: Concentrations that should not be exceeded except for short periods of time (usually 15-minutes)

STOT - Specific Target Organ Toxicity

STV - Short Term Value (same as STEL)

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)

Under Consideration - Under Consideration by the National Toxicology Program

vPvB - Very Persistent and Very Bioaccumulative

WHMIS - Workplace Hazardous Materials Information System

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.

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