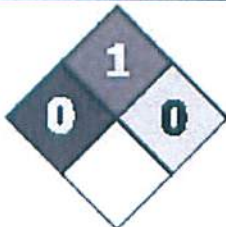







Pearson Sales
Company

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Material Safety Data Sheet

NFPA	WHMIS	Personal Protective Equipment	Transport Symbol
		  	
Preparation Date 08-Dec-2009	Revision Date: 08-Dec-2009	Revision Number 0	

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Clinton 185 Corn Starch

Contact Manufacturer:
Archer Daniels Midland Company

Product Code: 028185

Use of the Substance / Preparation:
Food additive

Emergency Telephone Number:
Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Product dust may be irritating to eyes, skin and respiratory system. Fine dust dispersed in air may ignite.

Appearance White

Physical State Powder

Odor Odorless

Potential Health Effects

Principle Routes of Exposure

Eye contact, Skin contact, Inhalation, Ingestion.

Acute Effects

Eyes

Contact with eyes may cause irritation.

Skin

May cause slight skin irritation

Inhalation

Dust may cause irritation of respiratory tract.

Ingestion

Health injuries are not known or expected under normal use.

Chronic Effects

None known.

Main Symptoms

Repeated or prolonged exposure may cause irritation of eyes and skin. Breathing difficulties.

Aggravated Medical Conditions

Respiratory disorders . Skin disorders.

Potential Environmental Effects

See Section 12 for additional ecological information.

Toxicological information

See Section 11 for additional toxicological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name Corn Starch
Chemical Family Carbohydrate

The following component(s) in this product are considered hazardous under applicable OSHA (USA), WHMIS (Canada), and/or NOM-002-SCT-2003 (Mexico) regulations

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Starch	9005-25-8	100	yes

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact Wash off with warm water and soap.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Clean mouth with water and afterwards drink plenty of water. Immediate medical attention is not required.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties Fine dust dispersed in air may ignite. Risks of ignition followed by flame propagation or secondary explosions should be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

Suitable Extinguishing Media Foam. Carbon dioxide (CO₂). Dry chemical. Water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None known.

Hazardous Combustion Products Carbon monoxide (CO), Carbon dioxide (CO₂).

Explosion Data

Sensitivity to mechanical impact No information available.

Sensitivity to static discharge Yes (as dust).

Specific Hazards Arising from the Chemical None known.

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

Stability and Reactivity 0

Flammability 1

Physical hazard -

**6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions Use personal protective equipment. Avoid dust formation.

Environmental Precautions Local authorities should be advised if significant spillages cannot be contained.

Methods for Clean-up Sweep up and shovel into suitable containers for disposal.



7. HANDLING AND STORAGE

Handling	Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition. Refer to NFPA 61, "Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities".
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Limits**

Components with workplace control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	MEXICO
Starch	TWA: 10 mg/m ³	TWA: 15 mg/m ³ (total dust) TWA: 5 mg/m ³ (respirable fraction)		

Legend

ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values. OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits. TWA - Time weighted average.

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.
Personal Protective Equipment	
Eye/face Protection.	Safety glasses with side-shields.
Skin and Body Protection	Long sleeved clothing Protective gloves if needed
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White	Physical State	Powder
Odor	Odorless	Odor Threshold	Not applicable
Flash Point	No information available	Autoignition Temperature	No information available
Boiling point	Not applicable	Melting/Freezing Point	Not applicable
Flammability Limits in Air	No information available	Explosion Limits	No information available
Minimum Ignition Temperature	380°C / 716°F		
pH	6.5	Vapor Pressure	Not applicable
Water Solubility	Insoluble	Specific Gravity	1.50
Evaporation Rate	Not applicable	Vapor Density	No information available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Avoid dust formation. Heat, flames and sparks.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	None known. No information available..
Possibility of Hazardous Reactions	None under normal processing



11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

LD50 Oral: No information available
LD50 Dermal: No information available
LC50 Inhalation: No information available

Toxicology data for the components

No information available

Chronic Effects

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	OSHA	ACGIH	NTP	MEXICO	IARC
Starch		A4			

OSHA: (Occupational Safety & Health Administration)

Not Listed

ACGIH: (American Conference of Governmental Industrial Hygienists)

A4 - not classifiable as a human carcinogen.

NTP: (National Toxicity Program)

Not Listed

Mexico: (Official Mexican Norm NOM-010-STPS-1999)

Not Listed.

IARC: (International Agency for Research on Cancer)

Not Listed.

Subchronic Toxicity No information available.

Corrosivity No information available.

Neurological Effects No information available.

Reproductive Effects No information available.

Teratogenicity No information available.

Irritation Skin hmn 300 µg/3D-I MLD

Sensitization No information available.

Mutagenic Effects No information available.

Developmental Effects No information available.

Target Organ Effects Eyes, Skin, Respiratory system.

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.

Bioaccumulation/ Accumulation

Not applicable.

Mobility

Insoluble in water.



13. DISPOSAL CONSIDERATIONS**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 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	CHINA	PICCS	KECL	NZLoC
Starch	Yes	Yes	No	Yes 232-679-6	No	Yes	No	Yes	Yes	Yes KE-32128	Yes

Legend

TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA). DSL - Domestic Substance List (Canada). NDSL - Non Domestic Substances List (Canada). EINECS - European Inventory of Existing Commercial Chemical Substances (EU). ELINCS - European List of Notified Chemical Substances (EU). AICS - Australian Inventory of Chemical Substances (Australia). ENCS - Existing and New Chemical Substances (Japan). CHINA - Chinese Inventory of Existing Chemical Substances (China). PICCS - Inventory of Chemicals and Chemical Substances (Philippines). KECL - Korean Existing and Evaluated Chemical Substances (Korea). NZLoC - New Zealand Inventory of Chemicals (New Zealand).

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 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 61)

This product is not known to contain any HAPS.

State Regulations**California Proposition 65**

Proposition 65 chemicals are not expected to be found in this product above those naturally present in their agricultural source. Proposition 65 exempts naturally occurring listed chemicals from an obligation to label.

State Right-to-Know**Component Information**

Chemical Name	Weight %	Illinois	Massachusetts	New Jersey	Pennsylvania	Rhode Island
Starch	100	No	Yes	No	Yes	No

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 No information available.

16. OTHER INFORMATION

Prepared By	ADM Corn Processing
Preparation Date	08-Dec-2009
Revision Date:	08-Dec-2009
Revision Summary	Implementation into software system.

Disclaimer

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.

End of (M)SDS

