



# MATERIAL SAFETY DATA SHEET

(Complies with 29 CFR 1910.1200)

**PRODUCT NAME:**

**PAYGEL 290**

(Code):

(5035-C)

## Section I - Identification

<b>Manufacturer's Name</b> Archer Daniels Midland Company (ADM)	<b>Emergency Telephone Number</b> 450-659-1911
<b>Address</b> 155 Iberia Candiac, Quebec J5R 3H1	<b>Telephone Number for Information</b> 514-937-9937

## Section II - Hazardous Ingredients / Identity Information

### CHEMICAL IDENTITY (Common Name):

Wheat Starch (Starch, Carbohydrate)

**CAS No.:**

**9005-25-8**

### DPT Classification:

NIOSH 5mg/m<sup>3</sup>

### OSHA PEL:

15mg/m<sup>3</sup> over 8 hours

This product is not manufactured to contain a hazardous component as defined in the following regulations: 21CFR 173.340 PARA 3; 49CFR 172; 40CFR 117; 40CFR 261 and CFR 1910, Subpart Z.

### ACGIH TLV:

Nuisance particulate 15 mg/m<sup>3</sup> of total dust or 5 mg/m<sup>3</sup> respirable dust.

### OZONE DEPLETING SUBSTANCES (ODS):

No Class I or Class II material is used in the manufacture of this product or is contained in this product.

### CONEG:

Complies with the Conference of Northeast Governor's Model Toxic Legislation.

### HAZARDOUS AIR POLLUTANT:

This product does not contain any ingredient classified as a hazardous air pollutant in the Clean Air Act Amendment dated 11/15/90.

### TSCA:

Included on the TSCA inventory under the Chemical Abstracts number 9005-25-8  
Product may be considered to be 100% of the material listed under this CAS number.

### FDA:

Produced in accordance with FDA Current Good Manufacturing Practices and is approved for use in food. None of the substances listed are intentionally added.

## Section III - Physical / Chemical Characteristics

<b>Boiling Point:</b> N/A	<b>Specific Gravity (H2O = 1):</b> 1.5	
<b>Vapor Pressure (mm Hg):</b> N/A	<b>Melting Point:</b> N/A	
<b>Bulk Density (Loose):</b> 0.32g/cc ± 0.05	<b>Bulk Density (Packed):</b> 0.40g/cc ± 0.05	<b>Solubility in Water:</b> 30%
<b>Appearance:</b> White flakes	<b>Odour:</b> Cereal	

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## Section IV - Fire and Explosion Hazard Data

<b>Flash Point (Method Used):</b> Dust cloud ignition temp. = 430C	<b>Flammable Limits (LEL, UEL):</b> 0.04 g/l
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### Extinguishing Media:

Water, carbon dioxide, foam, dry chemical extinguishers.

### Special Fire Fighting Procedures:

None

### Unusual Fire and Explosion Hazards:

Possibility of explosion under dusty conditions. Avoid handling (e.g. conveying, loading, etc) in presence of open flame or spark-generating source. Avoid accumulation of dust.

## Section V - Reactivity Data

<b>Stability:</b> Stable under normal conditions.	<b>Conditions to Avoid:</b> Formation of a nuisance particulate dust cloud. The formation of an explosive dust cloud and a simultaneous ignition source.
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### Incompatibility (Materials to Avoid):

None Known

### Hazardous Decompositions or Byproducts:

None Known

<b>Hazardous Polymerization:</b> Not known to occur.	<b>Conditions to Avoid:</b> None Known
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## Section VI - Health Hazard Data

### Routes of Entry:

<b>Inhalation:</b> Nuisance Dust	<b>Skin Absorption:</b> No Hazard	<b>Ingestion:</b> Yes	<b>Eyes:</b> Solids or dust may scratch surface of the eye, which can cause mechanical irritation.
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**Health Hazards (Acute and Chronic):** None. The following limit values for working atmospheres of inert or nuisance dust will apply. Total dust - 15 mg/m<sup>3</sup>; respirable fraction 5 mg/m<sup>3</sup>.

<b>Carcinogenicity:</b> No	<b>NTP:</b> No	<b>IARC Monographs:</b> No	<b>OSHA Regulated:</b> No
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### Signs and Symptoms of Exposure:

Excessive concentrations of particulates in workroom air may seriously reduce visibility, may cause unpleasant deposits in eyes, ears and nasal passages, or may cause temporary injury to the skin or mucuous membranes by mechanical action.

**Medical Conditions Generally Aggravated by Exposure:** The American Conference of Governmental Industrial Hygienists (ACGIH) has reported that so called 'nuisance' dusts have a long history of little adverse effect on lungs and do not produce significant organic disease or toxic effect when exposures are kept under reasonable control.

**Emergency and First Air Procedures:** **Eyes:** immediately flush with clean lukewarm water (low pressure) until irritation subsides. If irritation persists, get medical attention. **Ingestion:** Treat symptomatically. FDA considers wheat starch a Generally Recognized as Safe (GRAS) substance. **Inhalation:** If exposed to excessive levels of dust, remove to fresh air. Get medical attention if persistent cough or other symptoms develop. **Skin:** Wash with soap and water.

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**Section VII - Precautions for Safe Handling and Use**

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**Steps to Be Taken in Case Material is Released or Spilled:**

Avoid open flames, smoking, friction sparks, static sparks, welding and cutting tools in dusty surroundings. Sweep up spilled material and place in suitable receptacles for disposal. Flush spill area with water to remove residues. Do not flush to storm sewer or waterway.

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**Waste Disposal Method:**

Conform to applicable federal, provincial, state, and municipal regulations. Is not hazardous waste as specified in 40CFR 261. Dispose in an approved landfill in accordance with provincial, state, and municipal regulations.

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**Precautions to Be Taken in Handling and Storing:**

Best storage is under dry, cool, odor-free conditions, away from heat source. Do not expose to open flame or sparks. Practice good housekeeping.

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**Other Precautions:**

Avoid situations creating dust.

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**Section VIII - Control Measures**

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**Respiratory Protection (*Specify Type*):**

Use appropriate NIOSH/MSHA-approved a mask when necessary.

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**Ventilation:**

Local exhaust (wired to protect against ignition hazards posed by starch dust) should be used to maintain air-born dust concentrations below applicable OEL standards.

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**Protective Gloves:**

Impervious Gloves

**Eye Protection:**

CSA Approved Safety Glasses

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**Other Protective Clothing or Equipment:**

Good industrial hygiene practice.

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**Section IX - Preparation Information**

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Prepared By: ADM



Archer Daniels Midland Company

Telephone #:

450.659.1911 / 514.937.9937

Revision Date:

January 22, 2007

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This MSDS is based upon a limited review of ADM files and standard Toxicological handbooks. The information herein is furnished without warranty of any kind. This information should only be used as a supplement to information already in your possession concerning the product. The determination of whether and under what conditions the product should be used by your employees is yours to make.

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