



## Safety Data Sheet

### 1. Identification

**Product Identification:** Wheat Starch  
**Product Name:** GemStar®200  
**Manufacturer:** Manildra Milling USA  
4501 College Boulevard  
Suite 310  
Leawood, KS 66211  
**Emergency Telephone:** 800-323-8435

### 2. Hazards Identification

No hazardous ingredients.

Wheat Starch 100% Nuisance Particulates PEL 15 mg/m<sup>3</sup>

**Hazard Statements:** May form combustible dust concentration in air. If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.

**Signal Word:** Warning

**Pictogram:** None applicable.

**Precautionary Statements:** Store in cool, dry area. Use spark-resistive engines in areas where airborne dust is present. Product does not contain any chemicals subject to Section 313 of SARA (40 CFR 372). Depending on inventory amounts, material may be subject to reporting requirements of Sections 311 and 312. Product does not contain any carcinogens (0.1% or greater) as defined by IARC, NTP, or OSHA.

**Supplier Identification:** Manildra Milling Corporation, 4501 College Boulevard, Suite 310, Leawood, KS 66211 800-457-4280

### 3. Composition/Information on Ingredients

**Hazardous Ingredients:** None

**Appearance and Odor:** White granular powder.

**CAS #:** 9005-25-8

### 4. First Aid Measures

**Symptoms/Effects of Overexposure:** This product is considered a nuisance particulate. Inhalation of dust may cause respiratory irritation. Eye contact with dust may cause irritation.

**Eyes:** Immediately flush eyes with large amounts of water while holding the eyelids open. Seek medical attention if irritation persists.

**Skin:** Not applicable.

**Inhalation:** Move victim to fresh air. Seek medical attention if irritation persists.

**Ingestion:** Not likely during normal use of this product.

### 5. Fire Fighting Measures

**Flammability:** Non-flammable

**Fire and Explosion:** Non-flammable. Product will not support combustion. Airborne dust particles can produce an explosive hazard, if in large concentrations. Dust concentrations >0.45 oz./cu.ft. may ignite explosively.

**Special Fire Fighting Procedures:** Wear SCBA and be aware of potential for secondary dust explosions.

**U.S. Corporate Office:** 4501 College Boulevard, Suite 310, Leawood, Kansas 66211 - Tel (913) 362-0777 Fax (913) 362-0052

**Manufacturing Location:** 100 George Street, Hamburg, Iowa 51640 - Tel (712) 382-2265 Fax (712) 382-1649

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**Extinguishing Media:** Water or ABC rated extinguishers.

**Hazchem Code:** None allocated.

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## 6. Accidental Release Measures

Measures should be taken to minimize airborne dust which can become explosive, if in large concentrations.

**Spills:** Sweep or vacuum. Do not use water. Dispose of in a landfill site in accordance with local, state, and federal regulations. Consult local waste management authorities.

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## 7. Handling and Storage

**Handling:** Measures should be taken minimize airborne dust which can become explosive, if in large concentrations.

**Storage:** Store in a cool dry area away from chemicals and odorous products. Static electricity controls need to be in place for product transfer systems.

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## 8. Exposure Controls/Personal Protection

**Respiratory Protection:** Not normally required. For dusty conditions, wear a NIOSH approved respirator for dust.

**Eye Protection:** For dusty conditions, goggle protection is recommended.

**Clothing and Gloves:** None normally required.

**Ventilation:** Local exhaust required when pouring or mixing. Specific assistance should be addressed by a professional health and safety specialist.

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## 9. Physical and Chemical Properties

**Appearance:** White granular powder.

**Odor:** Dry starch

**pH:** 5-7

**Melting/Freezing Point(s):** Unavailable

**Boiling Point:** Decomposes above 400° F

**Flash Point:** Not applicable

**Evaporation Rate:** Not applicable

**Flammability:** Not applicable

**UEL/LEL:** Not applicable

**Vapor Pressure:** Not applicable

**Vapor Density:** Not applicable

**Relative Density:** Bulk (kg/m<sup>3</sup>) 600 - 650

**Solubility In Water:** <1%

**Specific Gravity (H<sub>2</sub>O=1):** <1.5

**Percent Volatile by Volume:** <12%

**Partition Coefficient:** Unavailable

**Auto-ignition Temperature:** Not applicable

**Decomposition Temperature:** Not applicable

**Viscosity:** Not applicable

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## 10. Stability and Reactivity

**Stability:** Normally stable. Avoid sparks or open flames when excessive dust is airborne.

**Reactivity:** Not available

**Hazardous Decomposition Products:** None other than carbon dioxide.

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## 11. Toxicological Information

Product widely used in the food industry. Persons with celiac disease should avoid ingestion.

**Eye:** Mild effect due to gritty nature.

**Inhalation:** Non toxic

**Skin:** No effect

**Ingestion:** Non toxic

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## 12. Ecological Information

**Ecotoxicity:** No environmental effect.

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## 13. Disposal Considerations

**Waste Disposal:** Dispose of in landfill site in accordance with local, state, and federal regulations.

**Legislation:** Consult with local, state, and federal waste management authorities.

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## 14. Transportation Information

No special precautions required.

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## 15. Regulatory Information

Information provided within this Safety Data Sheet (SDS) conforms to the new Globally Harmonized System (GHS) and OSHA's Hazard Communication Standard (HCS) 1910.1200 which mandates a 16-section format for all Safety Data Sheets by June 2016.

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## 16. Other Information

Nothing available.

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