

MATERIAL SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

DESCRIPTION: Pecan Shell Flour

1. Chemical Product and Company Identification

DESCRIPTION: Pecan Shell Flour

PRODUCT CODE: 100510
PRODUCT TYPE: Adhesive filler
APPLICATION: Adhesive extender

Manufacturer/Supplier Information

MSDS prepared by: Hexion Specialty Chemicals, Inc. 155 West A Street, Bldg. A-1 Springfield, OR 97477

For Emergency Medical Assistance
Call Health & Safety Information Services
1-866-303-6949

Printed: 06-SEP-2006

For additional health and safety or regulatory information, call (541)744-3256.

2. Hazards Identification

2.1 Emergency Overview

Appearance Tan powder Odor Little or none

WARNING!

Combustible dust when finely divided or suspended in air. Presents a fire or explosion hazard when dispersed and ignited in air.

HMIS Rating

HEALTH = 1 (slight)
FLAMMABILITY = 1 (slight)
REACTIVITY = 0 (minimal)

HMIS® ratings involve data interpretations that may vary from company to company. They are intended only for the rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

2.2 Potential Health Effects

Immediate Hazards

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INGESTION: No hazards known to company.

INHALATION: Not expected to be harmful under normal conditions of use. However, if

allowed to become airborne, may cause irritation of nose, throat and

lungs.

SKIN: No hazards known to company. EYES: No hazards known to company.

Delayed Hazards

None of the components present in this product at concentrations equal to or greater than 0.1% have been listed by NTP, classified by IARC, nor regulated by OSHA as a carcinogen.

3. Composition, Information on Ingredients

No hazardous ingredients known to company.

4. First Aid Measures

INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. If

the individual is drowsy or unconscious, do not give anything by mouth. Immediately contact poison control center or hospital emergency room for advice on whether to induce vomiting or for any other additional

treatment directions.

INHALATION: Remove to fresh air.

EYES: Immediately flush eyes with plenty of water. Call a physician if irritation

persists.

5. Fire Fighting Measures

Suitable Extinguishing Media: In case of fire, use water spray, dry chemical, "alcohol" foam or CO2. Use water to keep fire-exposed containers cool. Combustion products may include oxides of carbon and nitrogen.

Will burn.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Organic powders when finely divided (420 microns or smaller in diameter) and suspended in air may form explosive dust-air mixtures and result in a fire or dust explosion.

6. Accidental Release Measures

Minimize airborne dust and eliminate all ignition sources. Do not use air hoses for cleaning. Minimize dry sweeping to avoid generation of dust clouds. Vacuum dust-accumulating surfaces and remove to a chemical disposal area. Vacuums with explosion-proof motors should be used. Prevent entry into natural bodies of water.

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7. Handling and Storage

7.1 Handling

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Handle in accordance with good industrial hygiene and safety practices. Always use appropriate Personal Protective Equipment (PPE).

INHALATION:

Avoid prolonged or repeated breathing of dust or vapor.

COMBUSTIBLE DUST HANDLING PROCEDURES:

Combustible dusts at sufficient concentrations can form explosive mixtures with air. High dust concentrations should be avoided. Follow US NFPA Standard 654, "Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids," UK HSE Guidance HSG 103 or other national guidance on safe handling of combustible dusts. Train workers in the recognition and prevention of hazards associated with combustible dust in the plant.

Minimize airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. Establish good housekeeping practices. Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds. Use continuous suction at points of dust generation to capture and minimize the accumulation of dusts. Particular attention should be given to overhead and hidden horizontal surfaces to minimize the probability of a "secondary" explosion. According to NFPA Standard 654, dust layers 1/32 in.(0.8 mm) thick can be sufficient to warrant immediate cleaning of the area.

Control sources of static electricity. This product or the package itself can accumulate static charges, and static discharge can be a source of ignition. Solids handling systems must be designed in accordance with applicable NFPA standards (including 654 and 77) and other national guidance. Do not empty directly into flammable solvents or in the presence of flammable vapors. The operator, the packaging container and all equipment must be grounded with electrical bonding and grounding systems. Plastic bags and plastics cannot be grounded, and antistatic bags do not completely protect against development of static charges.

7.2 Storage

Store in a cool, dry place.

Keep away from heat, hot surfaces, sparks and flame.

If exposure to moisture causes lumping, break lumps into powder before using.

Storage life at 70° F is one year, less at higher temperatures.

8. Exposure Controls/Personal Protection

8.1 Exposure Guidelines

None established

8.2 Exposure Controls

If airborne contaminants are generated when the material is heated, dispersed or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable levels.

8.3 Personal Protection

Where air contaminants can exceed acceptable criteria, use NIOSH (42 CFR Part 84) approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminants in air in accordance with OSHA laws and regulations or other applicable standards or guidelines, including ANSI standards regarding respiratory protection.

9. Physical and Chemical Properties

Appearance Tan powder Little or none Odor Odor threshold Not available Hq Not applicable Boiling point, 760 mm Hg Not applicable Flash point Not applicable Evaporation rate Not applicable Lower explosion limit Not applicable Upper explosion limit Not applicable Vapor pressure Not applicable Not available Vapor density Specific gravity 0.4 - 0.7Solubility in water Not available Octanol/water partition coefficient Not available Autoignition temperature Not available

10. Stability and Reactivity

Chemical Stability

Normally stable as defined in NFPA 704-12(4-3.1).

Incompatible Materials

Oxidizers such as potassium chlorate and potassium nitrate.

Hazardous Decomposition Products

CO, CO2, aldehydes (including formaldehyde), oxides of nitrogen, particulate matter and other organic compounds.

Possibility of Hazardous Reactions

Hazardous polymerization is not expected to occur .

11. Toxicological Information

See Section 3 Hazards Identification information.

12. Ecological Information

Not determined

13. Disposal Considerations

Dispose of according to local, state/provincial, and federal requirements.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

Regulation: Non regulated

14.2 Canadian Transportation of Dangerous Goods (TDG)

Regulation: Non regulated

14.3 Other Regulations

ADR/RID

Regulation: Non regulated

• IMO/IMDG

Regulation: Non regulated

• IATA (Commercial)

Regulation: Non regulated

• IATA (Passenger)

Regulation: Non regulated

ADNR

Regulation: Non regulated

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

OSHA Hazards Communication Standard 29CFR1910.1200

This material is not a "health hazard" or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

SARA Title III: Section 311/312

Does not meet any hazard category

SARA Title III: Section 313 and 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

None required per SARA TITLE III SECTION 313.

TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

15.2 Canadian Regulations

Workplace Hazardous Materials Information System (WHMIS)

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

Not a controlled product

Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.

None required.

16. Other Information

User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

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