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Material Safety Data Sheet (MSDS)

Product Name: Pectin Buffer Food Grade
MSDS Generate Date: 20-05-2017
Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance and Company

Product Name: Pectin Buffer Food Grade

Product Type: Food Additive / Buffering Blend for Pectin Applications

Chemical Nature: Blend of Food Grade Buffering Salts and Pectin Processing Aids

CAS Number: Mixture (Not Applicable)

EC Number: Mixture (Not Applicable)

Recommended Use:
Used as a food-grade buffering agent for pectin stabilization, pH adjustment, gel formation, confectionery products, fruit preparations, jams, jellies, beverages, dairy products, bakery products, and other food processing applications.

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2. Hazard Identification

GHS Classification: Pectin Buffer Food Grade is generally not classified as hazardous according to the Globally Harmonized System (GHS) when handled under recommended conditions.

Potential Health Effects:

Inhalation: Dust may cause temporary irritation of the nose, throat, and respiratory tract.

Skin Contact: Prolonged or repeated contact may cause mild skin irritation in sensitive individuals.

Eye Contact: Dust particles may cause temporary mechanical irritation, redness, and watering.

Ingestion: Low toxicity is expected under normal food-grade handling conditions. Excessive consumption may result in temporary gastrointestinal discomfort.

Environmental Hazards: No significant environmental hazards are expected. Avoid unnecessary release of large quantities into waterways.

Precautionary Statements:

- Avoid breathing dust.
- Avoid contact with eyes.
- Wash hands thoroughly after handling.
- Use suitable ventilation where dust is generated.
- Keep containers tightly closed.
- Store in a cool and dry place.

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3. Composition / Information on Ingredients

Pectin Buffer Food Grade is a proprietary food-grade blend formulated for pectin processing and stabilization. The product generally contains food-grade buffering salts such as sodium citrate, potassium citrate, calcium salts, or other permitted food additives together with processing aids as required for the intended application. The exact composition varies depending on formulation and customer requirements. All ingredients comply with applicable food-grade quality standards and regulatory requirements.

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4. First Aid Measures

Inhalation: Move the affected person to fresh air. Seek medical attention if respiratory irritation persists.

Skin Contact: Wash affected skin thoroughly with soap and water. Remove contaminated clothing.

Eye Contact: Immediately rinse eyes with clean water for at least 15 minutes while holding eyelids open. Remove contact lenses if present. Seek medical attention if irritation continues.

Ingestion: Rinse mouth with water. Drink plenty of water. Seek medical advice if large quantities are swallowed or symptoms develop.

Most Important Symptoms: Mild respiratory irritation, Temporary eye irritation, Mild skin irritation, Gastrointestinal discomfort following excessive ingestion.

5. Fire Fighting Measures

Suitable Extinguishing Media: Water spray, Carbon dioxide (CO_2), Dry chemical powder, Foam.

Unsuitable Extinguishing Media: No specific restrictions.

Fire Hazards: Product is not highly flammable; however, fine organic dust may form combustible dust clouds under certain conditions.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, and irritating organic decomposition products.

Protective Equipment: Wear self-contained breathing apparatus (SCBA) and full protective clothing.

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6. Accidental Release Measures

Personal Precautions: Avoid creating airborne dust, Wear suitable gloves and eye protection, Ensure adequate ventilation.

Environmental Precautions: Prevent large quantities from entering drains, sewers, or natural waterways.

Cleanup Methods: Sweep or vacuum carefully while minimizing dust generation. Collect into suitable containers for reuse or disposal. Clean the contaminated area thoroughly.

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7. Handling and Storage

Handling

- Avoid excessive dust formation.
- Avoid inhalation of dust.
- Observe good industrial hygiene practices.
- Keep containers tightly closed after use.

Storage

Store in original tightly sealed containers in a cool, dry, clean, and well-ventilated location.

Protect from moisture, humidity, contamination, excessive heat, and direct sunlight.

Recommended storage temperature is generally 15°C–30°C.

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8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate general ventilation. Local exhaust ventilation is recommended where dust generation occurs.

Personal Protective Equipment

- **Respiratory Protection:** Dust mask or particulate respirator where airborne dust is generated.
- **Eye Protection:** Safety glasses with side shields or chemical splash goggles.
- **Hand Protection:** Protective gloves.
- **Skin Protection:** Suitable protective clothing for industrial handling.

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9. Physical and Chemical Properties

Appearance: White to off-white free-flowing powder

Odor: Odorless or faint characteristic odor

Physical State: Solid powder

pH: Depends upon formulation and solution concentration

Bulk Density: Varies according to product grade

Solubility: Readily dispersible or soluble in water depending on formulation

Moisture Content: Typically maintained within specification limits

Flash Point: Not applicable

Boiling Point: Not applicable

Melting Point: Not determined

Auto-Ignition Temperature: Not determined

Explosive Properties: Fine dust may form combustible mixtures with air

Oxidizing Properties: Not oxidizing

Vapor Pressure: Not applicable

Vapor Density: Not applicable

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10. Stability and Reactivity

Reactivity: Stable under recommended handling and storage conditions.

Chemical Stability: Stable under normal temperatures and humidity-controlled storage.

Conditions to Avoid: Moisture, Excessive heat, Dust generation, Strong oxidizing agents.

Incompatible Materials: Strong oxidizing agents and strong mineral acids.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and irritating organic vapors.

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11. Toxicological Information

Acute Toxicity: Low acute toxicity is expected under normal conditions of use.

Skin Irritation: May cause mild irritation after prolonged contact.

Eye Irritation: Dust may cause temporary mechanical irritation.

Respiratory Effects: Dust may cause temporary irritation of the respiratory tract.

Sensitization: Not expected to cause sensitization under normal conditions.

Carcinogenicity: No known carcinogenic effects.

Mutagenicity: No known mutagenic effects.

Reproductive Toxicity: No known reproductive toxicity.

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12. Ecological Information

Ecotoxicity: No significant ecological hazards are expected under normal conditions.

Persistence and Degradability: Expected to biodegrade naturally depending on composition.

Bioaccumulative Potential: Not expected to bioaccumulate.

Mobility: Water-soluble components may disperse readily in aquatic environments.

Environmental Precautions: Avoid unnecessary discharge of large quantities into natural waterways.

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13. Disposal Considerations

Dispose of unused product, contaminated absorbents, and packaging in accordance with applicable local, regional, and national regulations.

Do not dispose of large quantities into drains or surface waters.

Empty containers should be cleaned before recycling or disposal through approved waste management facilities.

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14. Transport Information

Pectin Buffer Food Grade is generally not classified as dangerous goods under ADR/RID, IMDG, or IATA regulations when transported in standard commercial packaging.

The product should be transported in clean, dry, tightly sealed containers to protect it from moisture, contamination, and physical damage during transportation.

UN Number: Not regulated.

UN Proper Shipping Name: Not regulated.

Transport Hazard Class: Not regulated.

Packing Group: Not applicable.

Environmental Hazard: Not classified as environmentally hazardous for transport.

Marine Pollutant: No.

Road Transport (ADR/RID): Transport in sealed HDPE containers, fiber drums, laminated paper bags, or food-grade packaging. Protect from moisture, direct sunlight, excessive heat, and physical damage. Secure cargo properly during transportation.

Sea Transport (IMDG): Not regulated as dangerous goods under the IMDG Code. Containers should remain tightly sealed and protected from humidity, seawater, contamination, and excessive temperatures throughout shipment.

Air Transport (IATA): Generally not regulated as dangerous goods. Use moisture-resistant and well-sealed packaging suitable for air transportation. Protect containers from damage caused by pressure changes.

Special Transport Precautions:

- Keep containers tightly closed during transport.
- Protect from moisture, humidity, and direct sunlight.
- Prevent contamination with incompatible substances.
- Avoid excessive dust generation during loading and unloading.
- Protect containers against physical damage.
- Secure cargo properly to prevent movement during transit.
- Inspect all packages before shipment.
- Do not transport damaged or leaking containers.

- Follow all applicable local, national, and international transportation regulations.
- Maintain product integrity by transporting only in clean food-grade containers.

Transport in Bulk According to MARPOL Annex II and IBC Code: Not applicable for packaged food-grade powder products.

Emergency Transport Information: In case of accidental spillage during transportation, avoid generating airborne dust. Collect the spilled material using clean equipment and transfer it into suitable containers for reuse or disposal. Prevent large quantities from entering drains or waterways. Personnel performing cleanup should wear protective gloves, eye protection, and a suitable dust mask where necessary.

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15. Regulatory Information

- Pectin Buffer Food Grade should be handled in accordance with applicable food safety, occupational health, environmental protection, and transportation regulations.
- The ingredients used in the formulation should comply with relevant food-grade regulations and standards applicable in the country of manufacture and use.

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16. Other Information

The information contained in this Material Safety Data Sheet is based on current knowledge regarding Pectin Buffer Food Grade and is intended to provide guidance for its safe handling, storage, transportation, and disposal.

The formulation and physical characteristics may vary depending on customer specifications and manufacturing requirements. Users should consult the current Product Specification and Certificate of Analysis before use.

This MSDS does not constitute a warranty of product specifications or suitability for any particular application. Users are responsible for ensuring compliance with all applicable local, national, and international regulations.

- **MSDS Generate Date:** 20-05-2017
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- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer’s provided information.