

MATERIAL SAFETY DATA SHEET

Section 1: Product and Company Identification

Product Name: Porkskin Gelatin

Synonym: Gelatin

CAS#: 9000-70-8

CI#: Not available

Chemical Formula: Not available

Manufacturer:

Gelnex Indústria e Comércio Ltda
Rodovia SC 283 Km 36, Itá – SC – Brazil

Website: www.gelnex.com.br

Telephone: + 55 49 3458 3500

Fax: + 55 49 3458 3501

Emergency phone number: + 55 49 3458 3524

Section 2: Name and Product Composition

Title: Gelatin is a pure protein which is obtained from partial and acid hydrolysis of collagen of pigskin origin.

Composition: 84 – 87 % Protein
10 – 12 % Water
1 – 2 % Ash

Section 3: Danger and Risk Identification

Health effects: Sensitive people can experience reactions. Low degree of risk.

Caution: In the presence of water, the product forms a slippery surface.

Recommendations: The contact with skin, eyes or inhalation may be irritating to sensitive people due to the hydrophilic properties of the product.

Section 4: First Aid Procedures

In contact with eyes: In case of contact, remove contact lenses and immediately flush your eyes with plenty of water for at least 15 minutes. In case of irritation, seek medical attention.

In contact with skin: Wash with soap and water. In case of irritation, seek medical attention.

In case of inhalation: Breathe fresh air. If you have trouble breathing, seek medical attention.

Ingestion: There is no risk if ingested in small quantities. If large quantities are ingested, seek medical attention.

Section 5: In Case of Fire

Flammability of the Product: May be combustible at high temperatures.

Treat as fire of "CLASS A"

Water – Foam – Chemical – CO₂

Specific Dangers: This product can ignite in the presence of fire and can continue when the flame disappears. The characteristic smoke of the product can be compared with that of an organic one.

Section 6: Product Spill

Small spills: Remove the material by suction to prevent the formation and accumulation of dust or use appropriate tools to put the spilled solid in a suitable trash container. If necessary, wash the surface with water.

Large spills: Use a shovel to put the spilled solid in a suitable trash container. If necessary, wash with water the surface.

Caution: The surfaces can become slippery if cleaning is not performed correctly.

Section 7: Handling and Storage

Handling: Handle in a ventilated area, avoid wet spaces and keep it away from heat.

Storage: Store the final product in a place free from heat sources, protecting it from extreme temperatures, light and humidity. Store it separately from chemicals.

Section 8: Exposure Control / Personal Protection

Facilities: Fans, exhaust fans or some form of control must be used in the local to maintain levels of air contamination below the recommended exposure limit. For operations that generate dust, smoke or fog, ventilation should be used to keep exposure to aerial contaminants below the recommended limit.

Personal Protection:

- **Protection of hands:** The use of disposable gloves for handling is recommended.
- **Eye protection:** The use of safety glasses when handling is recommended.
- **Respiratory protection:** The use of masks while handling is recommended.

Section 9: Physical and Chemical Properties of the Product

Physical state: Solid (Dust)

Odor: odorless

Taste: Characteristic

Color: Light Yellow

pH in water: 4,7 – 6,5

Density: 0.5 – 0.8 g/cm³

Melting point: it degrades at temperatures >100°C

Boiling point: it degrades before boiling

Solubility: In hot water solution of 35%. It is not soluble in cold water.

Section 10: Stability and Reactivity

Stability: This product is classified of low to moderate ability for explosions for low values of mesh and null explosions for high mesh.

Conditions of instability: Excessive heat.

Risk Conditions: This product presents no potential risk if used under normal conditions.

Reactivity: It may react on contact with tannin and formaldehyde.

Section 11: Toxicological Information

On skin contact: May be irritating to sensitive people.

On eye contact: May be irritating to sensitive people.

Inhalation: May cause irritation in the airways.

Ingestion: Large doses may cause gastrointestinal disturbance.

Section 12: Ecological Information

Toxicity: This product is not toxic, but its spread in the environment should be avoided.

Biodegradation: This product is 100% biodegradable.

Section 13: Considerations Related to the Elimination of the Product

Destroying the product: Recycling is not possible. It must be disposed in appropriate locations in accordance with current federal and environmental regulations.

Section 14: Transport Information

Road: It is not dangerous.

By sea: It is not dangerous.

By air: It is not dangerous.

Specificity: Avoid humidity.

Section 15: Other Information

The nutritional quality of this product conforms to international standards and in particular with AFNOR, as well as European and American regulations regarding food gelatin.

Section 16: Additional Information

The information contained in this safety data sheet is based on reliable sources and knowledge acquired over the years, performing in accordance with the law. It is the user's responsibility to take precautions and comply with Good Manufacturing Practices. ***Attention to the potential dangers that may result from inappropriate use of the product.***

Elaborated in: January/16

Rev: 01