

MATERIAL SAFETY DATA SHEET

1 Identification

- 1.1 Product : Empty Hard Gelatin Capsules
made from bovine bones
- 1.2 Registered Office : Sunil Healthcare Limited
17 – 18 Old Industrial Estate.
Alwar – 301001 (Rajasthan). India.

2 Composition

- 2.1 Gelatin : 80 – 85 %
- 2.2 Purified water : 12.5 – 16.0 %
- 2.3 Plasticizer : 0.1 %
- 2.4 Preservative : 0.1%
- 2.5 Lubricant : Traces
- 2.6 Coloring : ≤ 3.5 %
- 2.7 Printing Ink (edible) : Trace

3 Risk Identification : None

4 First Aid Measures

- 4.1 Inhalation : No measures required
- 4.2 Skin contact : No measures required
- 4.3 Eye contact : No measures required
- 4.4 Ingestion : No measures required

5. **Fire and Explosive Hazard Data**

- 5.1 Extinguishing Method : Water, foam, powder, CO₂
- 5.2 Special Fire Fighting Procedures : Wear respiratory equipment
- 5.3 Specific Dangers : Burning gelatin can emit toxic fumes of carbon monoxide carbon dioxide, nitrous oxide and in very small quantities sulfur dioxide
- 5.4 Additional Hazards : None identified
- 5.5 NPA dust explosion rating : No information available

6 **Special Handling and Storage Precautions** : No known handling or storage risks

- 6.1 Keep containers closed when not in use to maintain stability of product and protect against potential product contamination
- 6.2 Store in cool, dry areas 15 °C – 25 °C Temperature and 40 – 65 % RH
- 6.3 Use good industrial hygiene practices
- 6.4 Environmental protection : Do not dispose of into municipal sewers. Follow approved municipal codes for procedures for disposal.
- 6.5 Cleaning Method : Sweep, vacuum for cleaning
- 6.6 Caution : Loose gelatin granule or gelatin capsules may represent risk of slippage when spread on floor surface (dry and wet).

7 Special Individual Protection information

- 7.1 Respiratory protection : None required
- 7.2 Ventilation : No special ventilation
- 7.3 Eye Protection : None required

8 Reactivity Data

- 8.1 Stability : Stable
- 8.2 Conditions to avoid : No risk
- 8.3 Decomposition : No prime concern

9 Toxicological Information

- 9.1 Ingestion : Non toxic
- 9.2 Inhalations : No applicable information
- 9.3 Skin contact : Non irritating
- 9.4 Eye contact : Non irritating

10 Environmental Information

- 10.1 No Photo-degradation
- 10.2 Biodegradable
- 10.3 No known bio-accumulation
- 10.4 Non toxic for animals and plants

11 Physical Data

11.1	Aspect	: Hard covering made of two separate parts which are cylindrical with closed hemispheric ends and which can have different capacities and colors.
11.2	Smell	: None
11.3	Boiling Point	: Not applicable
11.4	Melting Point	: Not applicable
11.5	Flash Point	: Not applicable
11.6	Flammability	: Information Not available
11.7	Self flammability	: Information Not available
11.8	Explosure features	: Not applicable
11.9	Oxidizing feature	: None
11.10	Vapor pressure	: Not applicable
11.11	Bulk Density	: Size 00 - 60.00 KG per cubic meter Size 0EL - 53.82 KG per cubic meter Size 0 - 60.90 KG per cubic meter Size 1 - 66.80 KG per cubic meter Size 2 - 75.00 KG per cubic meter Size 3 - 80.00 KG per cubic meter Size 4 - 81.00 KG per cubic meter
11.12	Solubility (In water and other products)	: Very soluble in water over 35 °C



12 Transportation

- 12.1 No risk due to transportation
- 12.2 Transport under 15 °C – 25 °C Temperature and 40 – 65 % RH

13 Regulatory Information

- 13.1 The two-piece hard gelatin capsules designated for human consumption is defined in the Indian Pharmacopoeia 2010, Volume – 2 page 1407.

DISCLAIMER

This information is furnished without warranty, representation, inducement or license of any kind except that it is accurate to the best of knowledge of Sunil Healthcare Limited or obtained from sources believed by us to be accurate. Sunil Healthcare Limited does not assume any legal responsibilities for the use or reliance upon the same. Customers are encouraged to conduct their own test.

A handwritten signature in blue ink, appearing to read "R. Kukreja".

(R. Kukreja)
Asstt. Manager – Quality Control

Sunil Healthcare Limited