

# **MATERIAL SAFETY DATA SHEET**



## **TITAN BIOTECH LIMITED**

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### **GELATIN POWDER**

#### **Section 1: Chemical Product Identification**

**Product Name:** GELATIN POWDER

**Product Code:** 4072

**CAS#:** 9000-7-8

**Synonym:** Not available

**Chemical Name:** Not available

**Chemical Formula:** Not available

**Formula Weight:** Not available

#### **Section 2: Composition and Information on Ingredients**

**Composition:**

**Name:** GELATIN POWDER

**Toxicological Data on Ingredients:** Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### **Section 3: Hazards Identification**

**Potential Acute Health Effects:** Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

**CARCINOGENIC EFFECTS:** Not available.

**MUTAGENIC EFFECTS:** Not available.

**TERATOGENIC EFFECTS:** Not available..

**DEVELOPMENTAL TOXICITY:** Not Available. Repeated or prolonged exposure is not known to aggravate medical condition.

#### **Section 4: First Aid Measures**

**Eye Contact:** Flush eyes with water as a precaution.

**Skin Contact:** Wash off with soap and plenty of water.

**Serious Skin Contact:** Not available.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**Serious Inhalation:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

**Ingestion:** May be harmful if swallowed.

**Serious Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **Section 5: Fire and Explosion Data**

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available.

**Flash Points:** Not available.

**Flammable Limits:** Not available.

**Products of Combustion:** Carbon oxides, Nitrogen oxides.

**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of heat.

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## **Explosion Hazards in Presence of Various Substances:**

**Risks of explosion of the product in presence of mechanical impact:** Not available. Slightly explosive in presence of open flames and sparks.

## **Fire Fighting Media and Instructions:**

**SMALL FIRE:** Use DRY chemical powder.

**LARGE FIRE:** Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not Available.

**Special Remarks on Explosion Hazards:** Not Available.

## **Section 6: Accidental Release Measures**

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## **Section 7: Handling and Storage**

**Precautions:** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

**Storage:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## **Section 8: Exposure Controls/Personal Protection**

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection:** Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent.

**Personal Protection in Case of a Large Spill:** Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits:** Not available.

## **Section 9: Physical and Chemical Properties**

**Physical state and appearance:** Creamish to light yellowish colour crystal or flakes, having characteristic odour but not pungent smell.

**Odor:** Not Available.

**Taste:** Not Available.

**pH:** 4,0 – 7

**Boiling Point:** Not Available.

**Melting Point:** Not Available.

**Critical Temperature:** Not Available.

**Relative Density:** Not Available.

**Vapor Pressure:** Not Applicable.

**Vapor Density:** Not Available.

**Volatility:** Not Available.

**Odor Threshold:** Not Available.

**Water/Oil Dist. Coeff.:** Not Available.

**Ionicity (in Water):** Not Available.

**Dispersion Properties:** Not Available.

**Solubility:** Soluble in hot water, clear.

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## **Section 10: Stability and Reactivity Data**

**Stability:** Not available.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Not available.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** Will not occur.

## **Section 11: Toxicological Information**

**Routes of Entry:** Eye contact, Inhalation, Ingestion.

**Toxicity to Animals:**

**LD<sub>50</sub>:** Oral - Rat - 5.000 mg/kg

**LC<sub>50</sub>:** Not available

**Chronic Effects on Humans:** The substance is toxic to lungs, mucous membranes.

**Other Toxic Effects on Humans:** Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator).

**Special Remarks on Toxicity to Animals:** Adverse reproductive effects have occurred in experimental animals. Boric acid has selectively damaged the testes, sperm production and fertility in rats and dogs.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.

## **Section 12: Ecological Information**

**Ecotoxicity:** Not available.

**BOD and COD:** Not available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** Not available.

**Special Remarks on the Products of Biodegradation:** Not available.

## **Section 13: Disposal Considerations**

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## **Section 14: Transport Information**

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

## **Section 15: Other Regulatory Information**

**Federal and State Regulations:** Not available.

**Other Regulations:** Not available.

**Other Classifications :** Not available.

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## **Section 16: Other Information**

### **Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

**References: Full text of H AND R-Statements.**

Not Applicable.

**Other Special Considerations:** Not available.

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