



**JIANGSU CHITIN BIOTECH CO.,LTD.**

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## MATERIAL DATA SHEET

### Chitosan

#### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Chitosan

**Company:** Jiangsu Chitin Biotech Co., Ltd.

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**Fax:** 86-515-83993369

**Emergency Phone:** 86-515-83993369

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#### SECTION 2 INFORMATION ON INGREDIENTS

**Product name:** Chitosan

**Molecular Formular:**  $C_6H_{11}NO_4 = 161$

Ingredient	Concentration	CAS NO.
Chitosan	100%	9012-76-4

#### SECTION 3 HAZARDS IDENTIFICATION

**Hazards Identification:** This substance is considered to be non-hazardous for transport.

**Emergency Overview:**

Emit toxic fumes under fire conditions

**HMIS Rating:** Health: 0 Flammability: 0 Reactivity: 0

**NFPA Rating:** Health: 0 Flammability: 0 Reactivity: 0

#### SECTION 4 FIRST-AID MEASURES

**Skin Exposure:** After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Eye Exposure:** Check for and remove any contact lenses. Do not use an eye ointment. Seek medical attention.

**Inhalation Exposure:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Oral Exposure:** If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### SECTION 5 FIRE FIEGHTING MEASURES

**Extinguishing Media:**

Suitable: Water spray, Dry chemical, Sandy soil, Carbon dioxide or appropriate foam.

**Firefighting:**

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific hazards: Emit toxic fumes under fire conditions.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Procedures of Personal Precaution:**

Exercise appropriate precautions to minimize direct contact with skin and eyes.

**Methods of cleaning up:**

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## SECTION 7 HANDLING AND STORAGE

**Handling:**

Wear appropriate protective clothing and chemical safety gloves. Avoid breathing dust. Avoid contact with eyes, skin. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: strong oxidizing agents and foods. No smoking at working site.

**Storage:**

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: strong oxidizing agents and foods.

## SECTION 8 EXPOSURE CONTROL /PPE

**Engineering Controls:** Use ventilation equipment if available. Safety shower and eye bath.

**Personal Protective Equipment:**

**Respiratory:** Government approved respirator.

**Eye:** Wear chemical safety goggles.

**Clothing:** Wear appropriate protective clothing.

**Hand:** Wear compatible chemical –resistant gloves.

**Other Protect:** No smoking, drinking and eating at working site. Wash thoroughly after handling

## SECTION 9 PHYSICAL /CHEMICAL PROPERTIES

**Appearance and odor:** Pale yellow powder, weak odor

**Melting point:** >185°C decomposition      Molecular Weight: 161.1n

**Solubility:** Insoluble in water, soluble in acid   Ph Value: 7.0-8.0

## SECTION 10 STABILITY AND REACTIVITY

**Stability:** Stable under normal temperatures and pressures.

**Materials to Avoid:** Strong oxidizing agents.

**Hazardous Polymerization:** Will not occur

**Hazardous Decomposition:** Products: CO, CO<sub>2</sub>, Nitrogen oxides, Sulfur oxides.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Toxicity Data:** No data available

**Irritation Data:** No data available.

## SECTION 12 ECOLOGICAL INFORMATION

No data available.

## SECTION 13 DISPOSAL CONSIDERATIONS

### **Appropriate Method of Disposal of substance:**

Spent or discarded material is not belong to hazardous waste. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## SECTION 14 TRANSPORT INFORMATION

### **DOT**

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

**ADR/RID Class:** None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

### **IATA:**

Non-Hazardous for Air Transport: Non-hazardous for air transport.

### **IMO**

Not regulated.

### **IMDG:**

Not regulated.

**UN Number:** None

## SECTION 15 REGULATORY INFORMATION

### **EU Classification and Labeling Information:**

This chemical substance is not classified in the Annex I of Directive 67/548/EEC.

## SECTION 16 OTHER INFORMATION

**Date:** Jan. 04, 2013

**Revision:** 2

**Other information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising from using the above information.