



## Material Safety Data Sheet for BIOSTAR™ CH

### 1. Composition

**Active ingredients:** Chitosan acetate

**Chemical names:** (beta-(1,4)-2amino-2deoxy-D-glucose), acetic acid

**CAS #:** 9012-76-4, 7732-18-5

**Source:** N/A

### 2. Description and Properties

Appearance and odor	Yellowish powder, slight vinegar odor
pH	3.0-5.0
Solubility	Soluble in water

### 3. First Aid Measures

Eye contact:	BIOSTAR™ CH is mildly irritating to eyes. Flush with water for 15 minutes to remove and call a physician.
Skin contact:	BIOSTAR™ CH is not hazardous, clean skin after use
Inhalation:	If excessive amounts of dust are inhaled remove to fresh air and call a physician.
Ingestion:	If swallowed, no specific treatment is needed as the compound is not likely to be hazardous by ingestion. However, consult a physician if necessary.

### 4. Fire & Explosion Hazard Data

Flash Point:	N/A
Flammability:	Keep away from oxidizing agents and avoid open flames. Product may ignite at temperatures in excess of 200° F.
Unusual fire and explosion hazards:	Depending on moisture content, and particle size, airborne dust of chitosan might explode in the presence of an ignition source. It is comparable to flour and wood dust.
Fire Fighting media:	Water, dry chemicals, carbon dioxide, sand or foam.

### 5. Toxicological Data

Acute oral, LD50 (mice)	>16g/kg
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### 6. Personal Protection Equipment

Respiratory protection:	An OSHA- approved respirator is recommended when the dust is airborne.
Protective gloves:	Rubber or plastic gloves are recommended to minimize potential mechanical irritation from handling.
Eye protection:	Goggles are recommended when there is a high level of airborne dust.
Other protective clothing:	Not needed

## 7. Handling and Storage

Storage:	Store in a cool, dry place away from open flames and strong oxidizers.
For spills of chitosan acetate:	The product may be vacuumed or collected to recovery or disposal.
Waste disposal method:	Wash container with water. Land disposal is acceptable.
	The product is biodegradable.
Work/ Hygiene practices:	Follow good housekeeping practices. Clean up areas where chitosan acetate dust settles to avoid excessive accumulation of this combustible material. Minimize blow down, sweeping or other practices that generate high airborne dust concentrations.

## 8. Transportation information

US DOT Shipping name:	Chitosan acetate
DOT Hazard class:	55
Product label:	BIOSTAR™ CH
Canadian TDG:	N/A

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