



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
-------------------------	---------

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

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Hild & Associates, Inc.. Personnel handling this material must consider these data only as supplemental to other information gathered by them and must make independent determinations of this suitability and completeness of information from all sources to assure proper use and disposal of the materials and the safety and health of employees and customers. The data on this sheet relates only to the specific material designated herein. Hild & Associates, Inc. assumes no legal responsibility for use or reliance upon these data.