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MATERIAL SAFETY DATA SHEET

I. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

PRODUCT NAME: *Bac-Shield*
EPA Reg #: **81446-1**

II. COMPOSITION: INFORMATION ON INGREDIENTS

CHEMICAL FAMILY: Natural Polysaccharide
CAS REGISTRY NO: -----
CHEM. TREC: Not Registered
CHEMICAL NAME: Copolymer of poly n-acetylglucosamine and poly D-glucosamine

III. PHYSICAL DATA

APPEARANCE: Transparent Liquid
SOLUBILITY: Soluble in water
SPECIFIC GRAVITY: 0.97 g/cm³
FLAMMABILITY: Non-Flammable
FLASH POINT: No flash point
BOILING POINT: > 100 C (1% Conc.)
ODOR: Faint "sea-side" odor
FORM: Liquid
COLOR: White to Yellow
PH: 4.5 +/- .5
SOLIDS: (ASTM) 8.25 +/- .25

IV. HAZARDS IDENTIFICATION

ROUTE(S) OF ENTRY: Eyes, skin
EFFECTS OF OVEREXPOSURE: Material is mildly irritating to eyes and skin

V. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
SKIN: In case of skin contact, the compound is not hazardous but cleansing the skin after use is advisable.
INGESTION: If swallowed, no specific intervention is indicated as the compound is not likely to be hazardous by ingestion. However, consult a physician if necessary.
INHALATION: If large amounts are inhaled, remove to fresh air. Call a physician.

VI. FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARDS:	No fire or explosive hazards.
EXTINGUISHING MEDIA:	Spray water or chemical foam
SPECIAL FIRE FIGHTING INSTRUCTIONS:	None

VII. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES:	Utilize protective clothing. Follow normal disposal procedure for non-hazardous liquids.
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VIII. HANDLING AND STORAGE

STORAGE TEMPERATURE:	0-50°C recommended (avoid over 280°C)
SHELF LIFE:	2 Years
SPECIAL SENSITIVITY:	None known
HANDLING/STORAGE PRECAUTIONS:	Store in dry place. Keep containers covered to prevent contamination.

IX. EXPOSURE CONTROL/PERSONAL PROTECTION

EYE PROTECTION REQUIREMENTS:	Safety glasses are recommended
SKIN PROTECTION REQUIREMENTS:	Rubber gloves are recommended
RESPIRATOR REQUIREMENTS:	N/A
LOCAL EXHAUST:	N/A
MECHANICAL:	Mechanical exhaust not required
ADDITIONAL PROTECTIVE MEASURES:	Emergency showers and eye wash stations are suggested. Employees should wash their hands before eating or drinking.

X. STABILITY AND REACTIVITY

STABILITY:	Stable
HAZARDOUS POLYMERIZATION:	Polymerization will not occur.
INCOMPATIBILITIES:	Incompatible with strong oxidants and strong bases.
DECOMPOSITION:	Decomposition will not occur
INSTABILITY CONDITIONS:	Stable at normal temperatures and storage conditions.
DECOMPOSITION TEMPERATURE:	None
DECOMPOSITION PRODUCTS:	N/A

XI. TOXICOLOGICAL INFORMATION**ANIMAL DATA**

ACUTE TOXICITY:

Acute Oral LD 50 (Rat):	> 5000 mg/kg (No Mortality)
Acute Dermal LD50 (Rat):	>5000 mg/kg (No Mortality)
Acute Inhalation LC50 (Rat):	2.07 mg/l (No Mortality)
Skin Irritation Study (Rabbit):	PDII = 0.7 (Slightly Turning)
Primary Eye Irritation Study (Rabbit):	PII = 9.3 (Unrinsed), 7.3 (Rinsed) (Mildly Irritating)
Dermal Sensitization (G. Pig):	Not A sensitizer

XII. ECOLOGICAL INFORMATION

Material is biodegradable

XIII. DISPOSAL CONSIDERATIONS

Treatment, Storage, Transportation and Disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

CONTAINER DISPOSAL: Wash container with water

XIV. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME:	Aqueous Bac-Shield
TECHNICAL SHIPPING NAME:	Bac-Shield
D.O.T. HAZARD CLASS:	None
PRODUCT RQ. (LBS):	None
D.O.T. LABEL:	None
D.O.T. PLACARD:	None

XV. REGULATORY INFORMATION

OSHA STATUS:	<i>Bac-Shield</i> is not hazardous under the criteria of the Federal OSHA Hazard.
TSCA STATUS:	<i>Bac-Shield</i> is on TSCA inventory.
RCRA:	If discarded in its purchased form, this product would not be a hazardous waste. Under RCRA, it is the responsibility of the product user to determine if the product or a derived form of the product should be classified as a hazardous waste.

XVI. OTHER INFORMATION

N/A

XVII. APPROVAL

PREPARED BY: David M. Bilbro

APPROVAL DATE: November 28, 2006

Disclaimer

This material safety data sheet was prepared solely for the purpose of providing employees with information regarding potential hazards presented by listed substance(s). It was prepared in the context of reasonable foreseeable exposure situations, which may arise give the nature and the expected use of the product. The substance(s) may present greater or lesser hazard under other circumstances. The data and recommendations presented herein are based upon our research and the research of others but Chem-Tex Laboratories, Inc. makes no warranty of any kind expressed or implied, except that the product supplied will be of standard quality of Chem-Tex Laboratories, Inc and the user assumes all risk and liability resulting from reliance of the information contained on this Material Safety Data Sheet and the use of the product, whether used singularly or in combination with other substances. This disclaimer does not, however apply to an independent statutory or contractual obligations, which may otherwise exist between Chem-Tex Laboratories, Inc and any other person.