

### MATERIAL SAFETY DATA SHEET

### I. CHEMICAL PRODUCT & COMPANY INDENTIFICATION

PRODUCT NAME: **Bac-Shield**PRODUCT TYPE: Antimicrobial
EPA REG#: 81446-1

CHEMICAL NAME: Aqueous solution of poly n-acetylglucosamine and

poly D-glucosamine

### **Manufacturer / Supplier Information**

MSDS Prepared by: Emergency Phone Number Chem-Tex Laboratories, Inc. Chemtree 800-424-9300

P.O. Box 5228

Concord, NC 28027

For additional health, safety or regulatory information, call (704) 795-9322.

Prepared: 02/16/07
MSDS Updated: N/A

#### II. Hazard Identification

Emergency Overview Potential Health Effects

APPEARANCE: Hazy Tan Liquid EYES: Irritating ODOR: Slight sea-side odor SKIN: Irritating HMIS: Health = 1 INGESTION: Irritating INHALATION: Irritating

Fire = 0 INHALATION: Irritating
Reactivity = 0

 $\begin{array}{ccc} \text{Reactivity} & = & 0 \\ \text{PPE} & = & A \end{array}$ 

### III. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous	CAS#	Percentage	$LD_{50}$	$LC_{50}$	SARA
Ingredients			(mg/kg)	(ppm/hr)	Title III
Acetic Acid	64-19-7	< 2	3,310	5,620	Yes

W. Frankling

IV. 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

however, 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: Prolonged inhalation of vapors can cause irritation to respiratory

system. If prolonged inhalation is necessary use an approved

NIOSH/MSHA respirator.

V. Fire Fighting Measures

FLAMABILITY: Non-Flammable

FIRE AND EXPLOSION HAZARDS: No fire or explosive hazards.

EXTINGUISHING MEDIA: Not specified

SPECIAL FIRE FIGHTING INSTRUCTIONS: None

VI. Accidental Release Measures

PERSONAL PRECAUTIONS: Use appropriate PPE

ENVIRONMENTAL: Use absorbent material to soak up small spills. Use

appropriate method to contain larger spills

VII. Handling and Storage

STORAGE TEMPERATURE: 5-50°C is recommended

SHELF LIFE: 2 Years
SPECIAL SENSITIVITY: None known

HANDLING/STORAGE PRECAUTIONS: Store in dry place at ambient temperature.

Keep containers covered to prevent

contamination.

VIII. Exposure Control / Personal Protection

EYE PROTECTION REQUIREMENTS: Safety glasses are recommended SKIN PROTECTION REQUIREMENTS: Not required for periodic use

RESPIRATOR REQUIREMENTS: Use of NIOSH/MSHA approved respirator

required for *vapor* or *misting* applications

only.

LOCAL EXHAUST: N/A

MECHANICAL EXHAUST: Not required

ADDITIONAL PROTECTIVE MEASURES: Emergency showers and eye wash stations

are suggested. Employees should wash their

hands before eating or drinking.

Hazardous Ingredients	CAS#	Percentage	OSHA-PEL	ACGIH TLV
Acetic Acid	64-19-7	< 2	10 PPM	10 PPM/15STEL

# IX. Physical and Chemical Properties

APPEARANCE: Hazy Tan Liquid SOLUBILITY: Soluble in water

SPECIFIC GRAVITY: 1.03 g/cm<sup>3</sup>

FLAMMABILITY: Non-Flammable
BOILING POINT: > 100°C (1% Conc.)
FREEZING POINT: 0°C (1% Conc.)
ODOR: Slight seaside odor

PH:  $4.5 \pm 0.5$  VOC: < 2%

## X. Stability and Reactivity

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITIES: Incompatible with strong oxidants and

strong bases. Will not occur

INSTABILITY CONDITIONS: Stable at normal temperature and storage

conditions.

DECOMPOSITION TEMPERATURE: Will not occur DECOMPOSITION PRODUCTS: None known

### XI. Toxicological Information

#### **ANIMAL DATA**

**DECOMPOSITION:** 

**ACUTE TOXICITY:** 

Acute Oral LD 50 (Rat): > 5000 mg/kg (No Mortality)
Acute Dermal LD50 (Rat): > 5000 mg/kg (No Mortality)
> 5000 mg/kg (No Mortality)

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

BOD (5 day) 109,000 ppm COD (5 day) 198,500 ppm

#### XIII. Disposal Considerations

Landfill, sewer, or incinerator disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

### XIV. Transport Information

Under the regulations of the US Department of Transportation (DOT), *Bac-Shield* is classified as non-hazardous.

### **XV.** Regulatory Information

OSHA STATUS: **Bac-Shield** is not hazardous under the criteria of the Federal

OSHA Hazard.

TSCA STATUS: **Bac-Shield** components are on the 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

#### **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.