



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

Brand Name: **Microbloc® Protex Mold Spore Knock Down**

Chemical Name: Functionalized Cationic Polymer

Formula Name: Mixture

Molecular weight: N/A

HMIS NFPA

HEALTH	2	2
FLAMMABILITY	0	0
PHYSICAL HAZARDS	0	0
HMIS PPE	B	

PREPARER
Microbloc
A Limited Liability Corporation
3305 Rutherford Road
Taylors, SC 29687

EMERGENCY TELEPHONE NUMBER
1-888-328-6653

2. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS#	WEIGHT %
Alkyl dimethyl benzyl ammonium chloride (C ₁₂₋₁₆)	68424-85-1	0.5-1.0
Didecyl dimethyl ammonium chloride	7173-51-5	0.5-1.0

Ingredients not precisely identified are proprietary or non-hazardous.

(Note: See Section 8 of this MSDS for Exposure Guidelines)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Amber liquid with mild ammonia odor.

Caution. May cause eye and skin irritation.

This product is not combustible. If involved in a fire, however, it can release small quantities of carbon monoxide and nitrogen oxides. Use extinguishing media suitable for the materials that are burning.

POTENTIAL HEALTH EFFECTS

PRIMARY ROUTE(S) OF ENTRY

Skin Contact Eye Contact
 Inhalation Ingestion

SYMPTOMS OF EXPOSURE

Eye Contact: Direct contact may cause irritation.

Skin Contact: Direct contact may cause irritation.

Ingestion: Direct ingestion may have toxic effects.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None known.

REPORTED AS CARCINOGEN OR POTENTIAL CARCINOGEN

Not Applicable OSHA
 National Toxicology Program (NTP) International Agency for Research on Cancer (IARC)



4. FIRST AID MEASURES

INHALATION

Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

EYE CONTACT

Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.

SKIN CONTACT

Wash affected areas with plenty of water, and soap if available, for several minutes. Seek medical attention if irritation develops or persists.

INGESTION

Give 3-4 glasses of water, but **DO NOT** induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

5. FIRE FIGHTING MEASURES

Flash Point and Method: >100°C (PMCC)

GENERAL HAZARD

This product is not combustible. If involved in a fire, however, it can release small quantities of carbon monoxide and nitrogen oxide.

EXTINGUISHING MEDIA

Use media suitable for the material that is burning.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side.

FIRE FIGHTING EQUIPMENT

As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Spill area may be slippery. Wear appropriate protective equipment (See Section 8).

Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread.

Prevent liquid from entering sewers or waterways.

7. HANDLING AND STORAGE

HANDLING

Wear appropriate protective equipment (See Section 8).

STORAGE

Keep container tightly closed. Keep away from heat, and sunlight. Storage temperature range: 5-30°C. Dispersion stability may be lost with freezing, Thickening or caking may result when heated above 40°C, through internal polymerization.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

In applications where the product will be exposed to elevated temperatures, use local ventilation to remove potential decomposition products.

PERSONAL PROTECTION

- Respirator: In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.
- Eye Protection: Wear chemical splash goggles where there is a potential for eye contact
- Gloves: Wear natural rubber gloves.
- Clothing: Normal working clothing is generally adequate.
- Other: Eye wash; safety shower.

EXPOSURE CONTROLS

COMPONENT	OSHA PEL		ACGIH TLC	
	TWA	STEL	TWA	STEL
None				

9. PHYSICAL AND CHEMICAL PROPERTIES

- State..... Low viscosity liquid
- Color..... Amber
- Odor Mild odor
- Boiling Point °C 100°C
- Weight per Gallon..... 8.7 lb/gal
- Specific Gravity @25°C 1.04 g/ml
- Water Solubility Soluble
- pH 8-10

10. STABILITY AND REACTIVITY

- REACTIVITY**
- Stable
- INCOMPATIBILITIES**
- Oxidation agents, anionic surfactants.
- HAZARDOUS DECOMPOSITION PRODUCTS**
- Carbon monoxide and nitrogen oxides.
- CONDITIONS TO AVOID**
- Avoid contact with heat.

11. TOXICOLOGICAL INFORMATION

- Oral LD₅₀(Rat) No data
- Dermal LD₅₀ (Rabbit) No data
- Inhalation LC₅₀ No data
- Primary skin irritation..... Presumed to be an irritant
- Primary eye irritation..... Presumed to be an irritant

12. ECOLOGICAL INFORMATION

- EC₅₀ (Bacterium toxicity) No data
- LC₅₀ (Rainbow trout) No data
- BOD No data
- COD Cr No data
- Heavy metals..... No data



13. DISPOSAL CONSIDERATIONS

RCRA Waste Code: Not regulated under RCRA, 40 CFR 261

Products: Keep away from natural water sources. Observe all applicable federal, state, and local regulations.

Empty packaging: Remove all residues when emptying.

14. TRANSPORTATION INFORMATION

DOT Hazard Classification: Non-Hazardous, not regulated

15. REGULATORY INFORMATION
(Not meant to be all-inclusive, selected regulations represented)

OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

Hazardous Non-Hazardous

CERCLA/SUPERFUND (40 CFR 117, 302)

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

SARA EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355)

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

SARA HAZARD CATEGORIES (40 CFR 370)

Acute Chronic Fire Pressure Reactive None

SARA TOXIC SUBSTANCES (40 CFR 372)

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

TOXIC SUBSTANCES CONTROL ACT/CANADIAN DOMESTIC SUBSTANCES LIST

All components of Masurf SP-820 not TSCA listed. For R&D and Market evaluation purposes only.

STATE REGULATIONS

None listed.

16. OTHER INFORMATION

ABBREVIATIONS

C:	Ceiling limit	N/A:	Not Applicable	N/D:	Not determined
N/E:	Not established	N/K:	Not known	RQ:	Reportable quantity
TPQ:	Threshold Planning Quantity				

Date Prepared: 11/01/2007

Supersedes Date: 08/01/2007

Prepared by: MSDS Coordinator

Reasons for Revision: Review and update

Disclaimer: Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be held liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information. The buyer assumes all risks of the use and/or handling.