

Material Safety Data Sheet

Issued 07/10/2016

Indusco Enviro-Chem LLC
2319 Joe Brown Dr
Greensboro, NC 27405

Product Name: Biostat-500
Chemical Description: Organosilane
Phone Number: 800 733-6018
Emergency Phone Number: Chemtrec 800-424-9300

2. Chemical Composition:

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

<u>Hazardous Substance(s)</u>	<u>CAS NO.</u>	<u>% Weight</u>	<u>TWA</u>	<u>STEL</u>
3-(Trimethoxysilyl)propyldimethyloctadecyl ammonium chloride	27668-52-6	5%	None	None
Chloropropyltrimethoxysilane	2530-87-2	<3%	0.1ppm	None

The above information is not intended for use in preparing product specifications.

3. Hazards Identification:

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. HARMFUL IF ABSORBED THROUGH SKIN OR INHALED.

Do not get in eyes or on clothing. Avoid contact with skin or clothing, and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before use.

Potential Health Effects:

PRIMARY ROUTES OF ENTRY:

Inhalation, skin contact, ingestion, and eye contact

EYES: Direct contact will cause substantial but temporary eye injury.

SKIN: May cause slight irritation.

INGESTION: Harmful if swallowed.

INHALATION: Harmful if inhaled for long periods.

MEDICAL CONDITIONS GENERALLY AGGREGATED BY EXPOSURE: Not known

CARCINOGENS: OSHA: No ACGIH: No NTP: No IARC: No

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data, and/or expert review of the product.

4. First Aid Measures:

EYES: Hold eye(s) open and flush with a steady, gentle stream of water for 15-20 minutes. If present, remove contact lenses after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If not breathing, give artificial respiration. Seek medical attention.

Section 5 Notes: Treat the same as methyl alcohol poisoning.

5. Firefighting Measures

FLAMMABLE LIMITS IN AIR :	UPPER: N/A LOWER: N/A
FLASH POINT:	N/A
EXTINGUISHING MEDIA:	N/A
SPECIAL FIRE FIGHTING PROCEDURES:	N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS:	N/A
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A

6. Accidental Release Measures

ACCIDENTAL RELEASE MEASURES:

Steps to be taken if material is released or spilled: Do not contaminate water, food, or feed by material. Disposal of collected product, residues, and clean-up materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations. Mop, wipe, or soak up with absorbent and contain for salvage or disposal. Clean any remaining slippery surfaces by appropriate techniques, such as: several moppings or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions, or high pressure steam for large areas. For non-silicones, use typical industrial cleaning materials. Observe any safety precautions applicable to the cleaning material being used. See applicable regulatory compliance information in section 15.

Section 6 Notes: This material will be slippery if spilled. See Section 8 for Personal Protective Equipment for Spills.

7. Handling & Storage

HANDLING : Wear appropriate personal protective equipment. (See Section 8)

STORAGE: Keep container closed and away from heat and direct sunlight. Do not freeze.

OTHER PRECAUTION: Store in original closed container in a secure area inaccessible to children and away from food or feed.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Local exhaust and General exhaust recommended.

RESPIRATORY PROTECTION: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data shows exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls. A suitable respirator would be a self-contained breathing apparatus (SCBA) or other supplied respirator.

EYE PROTECTION: Wear protective eyewear (goggles, face shield, or safety glasses with side shields.)

SKIN PROTECTION: Chemical protective gloves are recommended. (suitable gloves: SilverShield®, 4H®, Viton®)

9. Physical and Chemical Properties

PHYSICAL STATE:	Pale yellow, slightly viscous liquid at room temperature
APPEARANCE:	Liquid
ODOR:	Odorless or slight alcohol
SPECIFIC GRAVITY	At 68° F 1.0g/ml
SOLUBILITY IN WATER	Complete
pH AS SUPPLIED	5.0 - 6.0
EVAPORATION RATE	Not available
FREEZING POINT	32 ° F
BOILING POINT	212 ° F
MELTING POINT	Not Applicable
VAPOR PRESSURE	Not Available
VISCOSITY	At 68° F 393mPas
VOLATILE CONTENT	(>0.1 mm Hg): <10%
PERCENT SOLIDS	Not Available

Note: None

10. Stability & Reactivity

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Do not mix with cleaners, do not freeze, avoid heat & direct sunlight.

INCOMPATIBLE MATERIALS TO AVOID: Acids, alkalis, strong oxidizing agents, and anionic surfactants

11. Toxicological Information

ROUTES OF ENTRY: Inhalation, Skin Contact, Ingestion, Eye Contact

TOXICITY: Eye Irritation: Minimally irritating to eyes (Rabbit)

12. Ecological Information

Ecotoxicological Effects : This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with requirements of the National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or regional office of the EPA.

13. Disposal Considerations

WASTE DISPOSAL METHOD: Do not contaminate water, food, or feed by storage and disposal. If these wastes cannot be disposed of by use according to the label instructions, contact your State Pesticide or Environmental Control Agency of the Hazardous Waste Representative at the nearest EPA regional office for guidance.

Section 13 Notes: Contaminated products/soil/water may be RCRA/OSHA hazardous waste. Inactivation of solutions containing Biostat-500 may be accomplished by addition of an anionic surfactant or detergent in quantity equivalent to that of Biostat-500 solution. Container disposal: (plastic) Triple rinse (or equivalent), then offer for recycling or reconditioning, puncture and dispose of in a sanitary landfill, incineration, or by burning (if allowed by the state and local authorities). If burned, stay out of smoke. Waste resulting from the use of this product may be disposed of on site.

14. Transport Information

U.S. DEPARTMENT OF TRANSPORTATION: Not Required

15. Regulatory Information

U.S. FEDERAL REGULATIONS:

TSCA (Toxic Substances Control Act) Status: All components of this product are listed on the TSCA inventory of chemical substances.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):

Methanol: 5000.00 LB RQ

SARA 302 COMPONENTS – 40 CFR 355 APPENDIX A: None

311/312 HAZARD CATEGORIES:

Acute: No

Chronic: No

Fire: No

Pressure: No

Reactive: No

313 REPORTABLE INGREDIENTS: Methanol

STATE REGULATIONS:

California:

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer.

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause birth defects or other reproductive harm.

Massachusetts:

Methanol

New Jersey:

3-(Trimethoxysilyl)propyldimethyloctadecyl ammonium chloride

Methanol; #1222

Chloropropyl trimethoxysilane

Pennsylvania:

3-(Trimethoxysilyl)propyldimethyloctadecyl ammonium chloride

Methanol; #1222

Chloropropyl trimethoxysilane

INTERNATIONAL REGULATIONS: European Inventory of Existing Commercial Chemical EINECS registry number for 3-(trimethoxysilyl)propyldimethyloctadecyl ammonium chloride is 248-595-8. (EINECS No. 248-595-8)

16. Other Information:

PREPARATION INFORMATION: Prepared by Indusco Enviro-Chem LLC

DISCLAIMER: This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.