

SAFETY DATA SHEET

Code: Con^{MIC}Shield_{HD}
Revised Date: 2/23/2017

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Con^{MIC}Shield_{HD}
SYNONYMS: Microbiostatic Agent - A Silicone Quaternary Ammonium Salt

MANUFACTURER: ConShield Technologies, Inc.,
OFFICE: 541 Tenth Street NW, #233 - Atlanta, GA 30318-5713
E-MAIL: info@conshield.com

FOR HAZARDOUS MATERIALS INCIDENTS ONLY CALL
(SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT), CHEMTREC AT **1-800-424-9300** IN THE USA AND CANADA, OR
+1 703-527-3887 (collect calls accepted).

FOR ALL OTHER (NON-EMERGENCY INQUIRIES),
CONTACT CONSHIELD TECHNOLOGIES AT 1-877-543-2094 IN THE USA AND CANADA, or
+1-515-270-4576

FAX: 1-404-420-2160

CHEMICAL FAMILY: Organosilane
PREPARED BY: ConShield Technologies, Inc

SECTION 2: HAZARDS IDENTIFICATION

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product: Mixture

Skin Corrosive./Irritation	3	Skin corrosion/irritation
Eye Damage/Irritation	2B	Serious eye damage/eye irritation
Acute Toxicity Oral	5	Acute Toxicity

Physical Hazard Classification: None
Environmental Hazard Classification: None
Label pictogram: No Symbol Required
Signal Word: Warning

GHS Hazard Statement(s):

H316: Causes mild skin irritation
H320: Causes eye irritation
H303: May be harmful if swallowed

GHS Precautionary Statement(s):

P103: Read label before use
P332 + P313: If skin irritation occurs, get medical attention
P264: Wash hands thoroughly after handling.
P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if easy to do.
P337 + P313: If eye irritation persists, get medical attention.
P313: Contact a doctor or poison control center if product is swallowed.

CARCINOGENS:

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS:	<u>CAS NO.</u>	<u>% WEIGHT</u>
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3-(Trihydroxysilyl) propyldimethyloctadecyl ammonium chloride	27668-52-6	1.5%
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Other inert ingredients		98.5%
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The above information is not intended for use in preparing product specifications.

SECTION 4: FIRST AID MEASURES

EYES: Hold eye open and flush with a steady, gentle stream of water for 15-20 minutes. If present remove contact lenses after the first 5 minutes, and 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 to 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: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: UPPER: Not applicable - LOWER: Not applicable

FLASH POINT: Not applicable – **EXTINGUISHING MEDIA:** Not applicable

SPECIAL FIRE FIGHTING PROCEDURES: Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable

SECTION 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 7: HANDLING AND STORAGE

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

STORAGE: Store in original closed container in a secure area inaccessible to children and away from food or feed at temperatures within the range of 35°F (2°C) and 140°F (60°C).

Material shelf-life is one year from date of manufacture.

OTHER PRECAUTIONS: Do not freeze product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Local exhaust: Recommended
General Ventilation: Recommended

RESPIRATORY PROTECTION: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show 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®)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Liquid

ODOR: Odorless or slight alcoholic

PHYSICAL STATE: Blue, slightly viscous liquid at 25 °C

pH: 5

BOILING POINT: F: 212° C: 100°

MELTING POINT: F: not applicable C: not applicable

FREEZING POINT: F: 32° C: 0°

VAPOR PRESSURE: Not available

SPECIFIC GRAVITY (@ 68°F/20°C): 1.0g/ml

SOLUBILITY IN WATER: Complete

DENSITY: 8.48 lbs per gallon

VOLATILE CONTENT (>0.1 mm Hg): <10%

VISCOSITY (@ 68°F/20°C): 393 mPa •s

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Under normal conditions this material is stable.

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Acids, alkalis, strong oxidizing agents, and anionic surfactant

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

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

TOXICITY: Moderately Toxic

Eye Irritation: Mildly irritating to eyes [Rabbit]

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

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.

SECTION 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 or 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 Con^{MIC}Shield may be accomplished by addition of an anionic surfactant or detergent in quantity equivalent to that of Con^{MIC}Shield in 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.

SECTION 14: TRANSPORT INFORMATION

Land transport

USDOT Not classified as a dangerous good under transport regulations

Sea transport

IMDG Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO Not classified as a dangerous good under transport regulations

SECTION 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):

SARA 302 COMPONENTS – 40 CFR 355 APPENDIX A: None

311/312 HAZARD CATEGORIES:

Acute: No

Chronic: No

Fire: No

Pressure: No

Reactive: No

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. NOT KNOWN

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. NOT KNOWN

New Jersey: 3-(Trimethoxysilyl) propyldimethyloctadecyl ammonium chloride; Chloropropyl trimethoxysilane

Pennsylvania: 3-(Trimethoxysilyl) propyldimethyloctadecyl ammonium chloride; 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)

NFPA Hazard Codes:

Health: 3

Fire: 0

Reactivity: 0

Special:

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: Prepared by ConShield Technologies, Inc.

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.