



Safety Data Sheet

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LAST
SYNONYMS: LAST Disinfectant and Antimicrobial Coating
EPA REGISTRATION: 75174 - 10

MANUFACTURER: SiShield Technologies, Inc.
DISTRIBUTOR: Microbial Defense Laboratories
ADDRESS: PO BOX 730
Spring Branch TX 78070

EMERGENCY TELEPHONE NUMBER (CHEMTREC): 1-800-424-9300
NON-EMERGENCY TELEPHONE NUMBER: 404.636.8900
FAX PHONE: 404.636.8500

CHEMICAL FAMILY: Organosilane

PREPARED BY: SiShield Technologies

SECTION 1 NOTES: None

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification:
Mixture

Health	Environmental	Physical
Skin Irritation: Category 3 Eye Irritation: Category 2B Acute Toxicity Oral: Category 5	None Listed	None Listed

GHS product labeling:

GHS Label Pictogram(s):	No Pictogram Required
Signal Word(s):	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 P264: Wash hands thoroughly after handling.



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P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if easy to do.

P332 + P337 + P313: If skin irritation occurs or if eye irritation persists, get medical attention. Contact a doctor or poison control center if product is swallowed.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

ALL SPECIFIC HAZARDOUS COMPONENTS (IF ANY), REQUIRED TO BE IDENTIFIED BY FEDERAL AND/OR STATE LAW, ARE IDENTIFIED BY COMPONENT NAME AND CASRN NUMBER AND LISTED IN REQUIRED SECTIONS 3, 8, 14 AND 15 OF THIS SDS.

CAS Number	Component	Percent
Proprietary	Aqueous Organosilane	100

This product does not contain any hazardous components which require disclosure under US State or Federal Laws

SECTION 4: FIRST-AID MEASURES

- Inhalation:** If respiratory symptoms develop, move victim from contaminated area to fresh air. If not breathing, apply artificial respiration, preferably by mechanical means. Avoid direct mouth to mouth resuscitation. If symptoms persist, obtain medical attention immediately.
- Skin Contact:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with plenty of soap and water including hair and under fingernails. Do not apply any medicated agents except on the advice from a physician. Get medical attention if needed.
- Eye Contact:** Immediately flush eyes with large amounts of running water for at least 15 minutes, holding eyelids apart to facilitate irrigation of the entire surface of the eyes and lids. Do not apply any medicated agents except on the advice of a physician. Get immediate medical attention.
- Ingestion:** DO NOT INDUCE VOMITING OR ADMINISTER EMETICS EXCEPT ON THE ADVICE FROM A PHYSICIAN. If victim is fully conscious, give 2 - 3 glasses of water to drink. Contact a physician, hospital or Poison Control Center immediately. Do not give anything by mouth to an unconscious person. To ensure airway is open, position with head lower than body and transport immediately to a medical facility.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR,
UPPER: Not determined LOWER: Not determined

FLASH POINT: Not Determined

METHOD USED: Pinsky-Martens Closed Tester Method



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EXTINGUISHING MEDIA: Carbon dioxide (CO₂), water fog (or spray), dry chemical, or foam.

SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals. Heat exposure pressurizes closed containers. Cool with water spray. Evacuate area in case of overheating fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and can travel along the ground to remote ignition sources. Static electricity may accumulate and ignite vapors. Prevent a possible fire hazard by suitable means, such as, bonding and grounding, inert gas purge, vapor dilution, and the like.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Oxides of Carbon

SECTION 5 NOTES: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Disposal of collected product, residues, and clean-up materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations. Remove possible ignition sources and if needed, use non-sparking tools and equipment. To prevent possible spontaneous combustion, store rags, mops, absorbent, etc., used during clean up only in appropriate containers or covered with water. Determine whether to evacuate or isolate the area depending on such specific factors as site location, population density, traffic flow, size of the release or spill, weather conditions, the material's hazards and risk to people, and whether a fire is underway or possible. Mop, wipe, or soak up with absorbent and contain for salvage or disposal. For large spills, provide diking or other appropriate containment to keep material from spreading. 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. Local, state, and federal reporting requirements may be applied to spills or releases of this material into the environment. See applicable regulatory compliance information in Section 15.

SECTION 6 NOTES: See Section 8 for Personal Protective Equipment for Spills.

SECTION 7: HANDLING AND STORAGE

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

STORAGE: Keep container closed and away from heat, sparks, and open flame. Keep container closed and store away from water and moisture.

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

SECTION 7 NOTES: None

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Local exhaust: Recommended
General Ventilation: Recommended



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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.

Occupational Exposure Value(s)

Chemical name (CAS #)	ACGIH (TWA)	ACGIH (STEL)	OSHA (TWA)	OSHA (STEL)

Comments: (S) = Skin, (C) = Ceiling

These precautions are for room temperature handling. Use at an elevated temperature or aerosol/spray applications, may require added precautions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, light yellow liquid

ODOR: Mild

PHYSICAL STATE: Liquid

pH: 5

BOILING POINT:

F: Not determined

C: Not determined

MELTING POINT:

F: Not determined

C: Not determined

FREEZING POINT:

F: Not determined

C: Not determined

VAPOR PRESSURE (mmHg) @ 77°F: 100.00 Hg

DENSITY: 8.34 lbs/gal

SPECIFIC GRAVITY: 1.0

EVAPORATION RATE: Not Determined



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SOLUBILITY IN WATER: Complete

PERCENT VOLATILE: Not determined

VISCOSITY: Not determined

SECTION 9 NOTES: None

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): Strong acids and strong bases.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur

SECTION 10 NOTES: None

SECTION 11: TOXICOLOGICAL INFORMATION*

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

TOXICITY TO ANIMALS:

Acute oral toxicity (LD50): Not determined

Acute dermal toxicity (LD50): Not determined

Eye Irritation: Not determined

Skin Irritation: Not determined

Acute Inhalation Toxicity(LC50): Not determined

CHRONIC EFFECTS IN HUMANS:

None expected

SECTION 11 NOTES: None

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

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 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 12 NOTES: None



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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: 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. (*metal*) Triple rinse (or equivalent), then offer for recycling or reconditioning, puncture and dispose of in a sanitary landfill, incineration, or by other procedures approved by state and local authorities. (*glass*) Triple rinse (or equivalent), then dispose of in a sanitary landfill or by other approved state and local procedures.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION
Not Regulated

SECTION 14 NOTES: None

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):
None

311/312 HAZARD CATEGORIES:

Acute: Yes Chronic: No Fire: No Pressure: No Reactive: No

313 REPORTABLE INGREDIENTS: None

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.



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None

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.

None

STATE RIGHT TO KNOW:

None

FEDERAL HAPS:

None

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA):

SiS 200D as delivered is not a RCRA hazardous waste

SECTION 16: OTHER INFORMATION

PREPARATION INFORMATION: Prepared by SiShield Technologies

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.

Last Updated: 04/01/2020

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