

# MATERIAL SAFETY DATA SHEET

American Textile, LLC  
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SurfTechs 4401

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## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** SurfTechs 4401  
**Chemical Family:** Organosilane Antimicrobial  
**Product Description:** Clear Amber Liquid

### CONTACT:

American Textile, LLC

Tel: (770) 291-2226

**Emergency Telephone Numbers:** (24 Hours)

**CHEMTREC #** (800) 424-9300

**INTERNATIONAL#** (703) 527-3887

**Non-Emergency Telephone Numbers:** (8 am - 5 pm, Monday - Sunday)

**FOR HEALTH AND SAFETY INFORMATION CALL** (770) 291-2226

## SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Components of this mixture may be proprietary information. In case of a medical emergency, compositional information will be provided to a physician or nurse.

This product is **hazardous** as defined in 29 CFR1910.1200.

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>TWA</u>	<u>STEL</u>
3-(Trimethoxysilyl)propyldimethyloctadecyl ammonium chloride	5%	27668-52-6	NE	NE
Methyl Alcohol	<1.5%	67-56-1	200 PPM	250PPM
Chloropropyl trimethoxysilane	<3%	2530-87	0.1 PPM	NE

Methyl Alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposure with the guidelines of OSHA PEL: TWA 200 PPM and ACGIH TLV-skin: TWA 200 PPM, STEL 250 PPM.

## SECTION 3 HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS

#### ACCUTE HEALTH, CHRONIC HEALTH

**Danger!** Methyl Alcohol may cause blindness. Causes irreversible eye damage. Do not get in eyes or on clothing. Harmful or fatal if swallowed. Harmful if absorbed through skin or inhaled. Avoid contact with skin. Avoid breathing vapors or mist. Flammable.

**Eyes:** Direct contact burns eyes. Temporary injury.

**Skin:** May cause slight irritation.

**Ingestion:** Harmful if swallowed.

**Inhalation:** Harmful if inhaled for long periods.

**Carcinogens:** Not considered a carcinogen.

**Mutagens:** Chloropropyl trimethoxysilane (CAS # 2530-87-2) was found to be genetically active via inhalation in a bone marrow micronucleus assay (female rats exposed to 200 PPM/day for 28 days). In the same assay, no evidence of genetic activity was found in mice exposed to 500, 1000, or 1625 mg/kg by IP injection. The potential relevance of this to humans has not yet been determined.

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**SECTION 4 FIRST AID MEASURES**


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<b>Eyes:</b>	Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Seek medical attention.
<b>Skin:</b>	Flush skin thoroughly with water for at least 15 minutes. Wash with plenty of soap and water.
<b>Ingestion:</b>	Seek medical attention immediately. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water. Avoid alcohol.
<b>Inhalation:</b>	Immediately remove victim to fresh air. If victim has stopped breathing, give artificial respiration, preferably by mouth to mouth. Get medical attention immediately.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage. Treat the same as methyl alcohol poisoning.

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**SECTION 5 FIRE FIGHTING MEASURES**


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**FLAMMABLE!**

<b>Flash Point and Method:</b>	NA
<b>Flammable Limits:</b>	NA
<b>Extinguishing Media:</b>	Carbon dioxide (CO <sub>2</sub> ), water fog (or spray), dry chemical, or foam.
<b>Hazardous Combustion Products:</b>	None known.
<b>Fire Fighting Procedures:</b>	Heat exposure pressurizes closed containers. Cool with water spray. Evacuate area in case of overheating fire.
<b>Fire Fighting Equipment:</b>	Wear OSHA/NIOSH approved self-contained breathing apparatus and protective clothing.
<b>Fire and Explosion Hazards:</b>	Vapors are heavier than air and can travel along the ground to remote ignition sources. Static electricity may accumulate and ignite the vapors. Prevent a possible fire hazard by suitable means, such as bonding and grounding, inert gas purge, vapor dilution and the like.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**


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**Environmental Precautions**

<b>Spill:</b>	Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent material. 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 spill area.
<b>Waste Disposal Method:</b>	All recovered material should be packaged, labeled, transported, disposed or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices.

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**SECTION 7 STORAGE AND HANDLING**


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<b>General Procedures:</b>	Store in cool, dry, well-ventilated area. Keep container closed and away from heat, sparks and open flame. Keep container closed and away from water and moisture. Follow good industrial hygiene.
<b>Loading Temperature:</b>	Ambient
<b>Storage Temperature:</b>	Ambient
<b>Storage/Transport Pressure</b>	Atmospheric

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**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**


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<b>Engineering Controls:</b>	Use in area with adequate ventilation.
<b>Work Hygienic Practices:</b>	Use respiratory protection unless adequate local exhaust ventilation is provided. A suitable respirator is a self-contained breathing apparatus (SCBA) or other supplied respirator. Eyes & face protection, gloves and apron are recommended.
<b>Other Use Precautions:</b>	Eyewash and safety shower should be in area of use.

Product evolves methyl alcohol when exposed to water or humid air. Provide ventilation during use.

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**SECTION 9      PHYSICAL AND CHEMICAL PROPERTIES**


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<b>Physical State:</b>	Pale Amber Liquid	<b>Vapor Pressure:</b>	NA
<b>Vapor Density:</b>	NA	<b>Boiling Point:</b>	NA
<b>Freezing Point:</b>	NA	<b>Solubility in Water:</b>	Soluble
<b>Evaporation Rate:</b>	ND	<b>Specific Gravity:</b>	About 1.0
<b>Viscosity (CPS at 68° F):</b>	400 mPas	<b>pH:</b>	About 5
<b>Solids:</b>	ND		
<b>Comments:</b>			

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**SECTION 10      STABILITY AND REACTIVITY**


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<b>Hazardous Polymerization:</b>	Will not occur.
<b>Conditions to Avoid:</b>	Strong oxidizing agents.
<b>Stability:</b>	Stable.
<b>Hazardous Decomposition:</b>	Oxides of carbon and nitrogen and hydrocarbon residues.

Water or moisture can cause hazardous vapors to form as previously described.

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**SECTION 11      TOXICOLOGICAL INFORMATION**


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<b>Routes of Entry:</b>	Inhalation, Skin contact, Ingestion, Eye contact
<b>Toxicity to Animals</b>	
Eye irritation:	Irritating to eyes (rabbit)
<b>Chronic Effects in Humans</b>	
Hazardous in case of ingestion.	

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**SECTION 12      ECOLOGICAL INFORMATION**


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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 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.

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**SECTION 13      DISPOSAL CONSIDERATIONS**


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Please refer to Sections 5, 6 and 15 for Disposal and Regulatory Information.

RCRA Hazard Class:                    40 CFR 261

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**SECTION 14      TRANSPORT INFORMATION**


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<b>Department Of Transportation (DOT)</b>	<b>Not Regulated</b>
<b>DOT Shipping Name:</b>	NA
<b>DOT Hazard Class:</b>	NA
<b>DOT Identification Number:</b>	NA
<b>Packing Group:</b>	NA

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**SECTION 15      REGULATORY INFORMATION**


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**UNITED STATES**
**SARA TITLE III:**

Under the provisions of Title III, Section 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories:

FIRE

PRESSURE GENERATING

REACTIVITY

ACUTE

CHRONIC

No No No No No

This information may be subject to the provisions of the Community Right to know. Reporting Requirements (40 CFR 370) if threshold quantity criteria are met. This product **does contain** Section 313 Reportable Ingredients.

#### Methyl Alcohol

#### CERCLA:

If this product is accidentally spilled, it is subject to special reporting under the requirements of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.

#### Methyl Alcohol 5000.00 LB RQ

#### TSCA (Toxic Substance Control Act):

TSCA STATUS: Components of this product are listed.

RCRA STATUS: 40 CFR 261

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## SECTION 16 OTHER INFORMATION

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Approval Date: 06/07/02

#### Revision Summary

#### Revision #:

#### Hazard Rating Systems:

This information is for people trained in;  
National Paint & Coating Association's (NPCA)  
Hazardous Materials Identification System (HMIS)  
National Fire Protection Association (NFPA 704)

#### Identification of the Fire Hazard of Material

	NPCA - HMIS	NFPA 704	KEY
HEALTH	2		4 = Severe
FLAMMABILITY	0		3 = Serious
REACTIVITY	0		2 = Moderate
PROTECTIVE	D		1 = Slight
EQUIPMENT			0 = Minimal

#### Protective Equipment Index

A Safety Eyewear	H Safety Eyewear, Gloves, Apron, Vapor Respirator
B Safety Eyewear, Gloves	I Safety Eyewear, Gloves, Dust & Vapor Respirator
C Safety Eyewear, Gloves, Apron	J Safety Eyewear, Gloves, Apron, Dust & Vapor Respirator
D Eyes & Face Protection, Gloves, Apron	K Supplied-Air Respirator, Gloves, Full Suit, Boots
E Safety Eyewear, Gloves, Dust/Mist Respirator	X Ask your supervisor for special handling instructions.
F Safety Eyewear, Gloves, Apron, Dust/Mist Respirator	
G Safety Eyewear, Gloves, Vapor Respirator.	

#### Note:

ND Not determined

NA Not applicable

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#### Revision Summary:

This MSDS has been reformatted to be consistent with ANSI Standard 2400, 1-1993.

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#### Reference Number:

Revised Date:

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This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief. Accurate and reliable of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

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