

# MATERIAL SAFETY DATA SHEET ---SURECOAT SS 5000 WATER REPELLENT

Revision Date: 10-01-2009

Health 2 Flammability 1

Instability/Reactivity 1

## SECTION I. IDENTIFICATION

**PRODUCT NAME:** SURECOAT SS 5000 WATER REPELLENT

**CHEMICAL NAME & SYNONYMS:** Water-Based Mixture of Modified Silicone emulsion / Water Repellent

**PROCESSORS NAME:** SureCoat Systems, 2940-A East La Jolla Street, Anaheim, CA 92804 PH: (714) 633-5706

**CAS #:** Not Issued **CHEMICAL FAMILY:** Water-based Solution of Modified Silane

## SECTION 2: COMPONENTS

INGREDIENTS	CAS NUMBER	% BY WT*
- Dimethyl, methylhydrogen siloxane	68037-59-2	5-7
-N-Octyltriethoxysilane	2943-75-1	5-7
- Polyethylene oxide lauryl ether	9002-92-0	0.5-1
- Water		Balance

Per California South Coast Air Quality Management District (SCAQMD) RULE 443.1, this product has volatile solvents content (VOC) of less than 37 grams/L - VOC Compliant.

## SECTION 3: HEALTH HAZARDS

NFPA 704 CODES: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious and 4=Severe

**HEALTH (BLUE)**

**FLAMMABILITY (RED)**

**REACTIVITY (YELLOW)**

**CLOTHING**

NFPA: 2

NFPA: 1

NFPA: 1

NFPA:

HMIS: 1

HMIS: 1

HMIS: 0

HMIS: PP = B

**ACUTE EFFECTS OF OVEREXPOSURE:**

- **EYE:** Mildly irritating to the eyes.
- **SKIN:** May cause moderate skin irritation. May aggravate existing dermatitis.
- **INHALATION:** Breathing mist may cause mild irritation to upper respiratory tract.
- **INGESTION:** Do not take internally. Seek immediate medical attention.

**CHRONIC EFFECTS OF OVEREXPOSURE:** Repeated prolonged contact may produce irritation. Do not ingest or swallow.

**OTHER HEALTH EFFECTS (MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE):** People with sensitive skin can experience aggravated skin irritation. No other known applicable information.

## SECTION 4: EMERGENCY FIRST AID PROCEDURES

- **EYE:** Immediately flush eyes with running water for at least 15 minutes. Seek immediate medical attention.
- **SKIN:** Remove from skin with water flush and soap. If irritation or adverse symptoms continue, seek medical attention.
- **INHALATION:** Remove to fresh air. If breathing difficult, seek medical attention immediately.
- **INGESTION:** Do not take internally. DO NOT induce vomiting. Seek medical attention immediately.

## SECTION 5: FIRE FIGHTING MEASURES

**Flash Point:** 212 °F / 100 °C (Closed Cup)

**Autoignition Temperature:** Not determined.

**Flammability Limits in Air:** Not determined.

**Extinguishing Media:** On large fires use dry chemical, foam or water spray.

On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.

**Fire Fighting Measures:** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Determine the need to evacuate or isolate the area according to your local emergency plan. **Unusual Fire Hazards:** None

**Hazardous Decomposition Products:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Nitrogen oxides. Hydrogen. Formaldehyde. Ethyl alcohol is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL and ACGIH TLV: TWA 1000 ppm. When heated to temperatures above 150 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Containment/Clean up:** Observe all personal protection equipment recommendations described in Sections 5, 7 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate vented container. Large amounts of material in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container. Clean up remaining materials from spill with suitable absorbent. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. Determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements. See section 8 for Personal Protective Equipment for Spills

## SECTION 7. HANDLING AND STORAGE

Use in well-ventilated area away from sparks and open flames. Do not smoke in vicinity. Product evolves minute flammable ethyl alcohol on exposure to water or humid air. Provide ventilation during use to control ethanol within exposure guidelines or use respiratory protection. Avoid eye and skin contact. Chemical splash goggles are recommended. Do not take internally.

Product evolves minute quantities of flammable hydrogen gas which can accumulate in non-ventilated areas. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage. Do not store in glass containers which may shatter due to pressure build up. Clogged container vents may increase pressure build up. Keep container closed and store away from water or moisture.

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### SECTION 8: PERSONAL PROTECTION

**Do not smoke in vicinity of application. Component Exposure Limits: Component Name: N-Octyltriethoxysilane.** Ethyl alcohol is formed upon contact with water or humid air. Provide adequate ventilation. Appropriate personal protective equipment necessary to prevent prolonged contact should be worn. Use in well-ventilated area or mechanical ventilation is recommended. Avoid prolonged breathing of mist or vapors. Where high concentrations of mist occur, a respirator with appropriate dust and mist removal capabilities is recommended. Eye protection and resistant clothing, boots and gloves should be worn where high concentrated spills or splashing can occur. Chemical splash goggles are recommended. A single prolonged skin exposure is not likely to result in skin irritation or absorption through the skin in harmful amounts. Do not take internally. Eye wash station should be available.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical Form:** Liquid **Color:** White **Odor:** Some odor **Specific Gravity @ 25°C:** 1 **Viscosity:** 50 cSt  
**Freezing/Melting Point:** Not determined. **Boiling Point:** 100 °C **Vapor Pressure @ 25°C:** Not determined.  
**Vapor Density:** Not determined. **Solubility in Water:** Not determined. **pH:** Not determined. **Volatile Content:** Undetermined.

### SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable. **Hazardous Polymerization:** Hazardous polymerization will not occur.  
**Conditions to Avoid:** None. **Materials to Avoid:** Oxidizing material can cause a reaction. Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air.

### SECTION 11: TOXICOLOGICAL INFORMATION

**Special Hazard Information on Components** No known applicable information.

### SECTION XII: ECOLOGICAL INFORMATION

**Environmental Fate and Distribution:** Complete information is not yet available. **Environmental Effects:** Complete information is not yet available. **Fate and Effects in Waste Water Treatment Plants:** Complete information is not yet available. **Ecotoxicity Classification Criteria:** Hazard Parameters (LC50 or EC50). Acute Aquatic Toxicity (mg/L) <=1 (high). >1 and <=100 (medium); >100 (low). Acute Terrestrial Toxicity <=100(high); >100 and <= 2000 (medium); >2000(low) Adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993. Can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

### SECTION 13: DISPOSAL CONSIDERATIONS

When a decision is made to discard this material, state or local laws may impose additional regulatory requirements regarding disposal. Small quantities may be cleaned with soap and water, and then flushed to a sanitary or industrial sewer. Absorbent material containing small amounts of the material may be disposed in appropriate land fills. Disposal of large quantities should comply with applicable disposal permits and regulatory laws. Characteristic Waste: Reactive D003

### SECTION 14: TRANSPORT INFORMATION

**-DOT SHIPPING NAME (49CFR 172.101):** Non Flammable Liquid, NOS, water-based Mixture of Silanes  
**- DOT ID# (49CFR 172.101):** Non-Regulated **- DOT HAZARD CLASS:** Non Flammable Liquid, NOS  
**-LABEL:** None Required **- PLACARD:** None Required **Air Shipment (IATA):** not IATA regulated. Vented packages forbidden for air transport. **Ocean Shipment:** Not subject to IMDG code  
**HS TARIFF CLASS CODE:** 3910.00.90.00

### SECTION 15: REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200. TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**EPA SARA Title III Chemical Listings: Section 302 Extremely Hazardous Substances:** None.

**Section 304 CERCLA Hazardous Substances:** None. **Section 312 Hazard Class:** Acute: Yes. Chronic: No. Fire: No Pressure: No. Reactive: Yes. **Section 313 Toxic Chemicals:** None present or none present in regulated quantities.

**Supplemental State Compliance Information:**

**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, birth defects or other reproductive harm.

CAS Number: 75-07-0. Wt %: <0.1. Component Name: Acetaldehyde (Carcinogenic).

**Massachusetts:** CAS Number: 75-07-0. Wt %: <0.1 Component Name: Acetaldehyde.

**New Jersey:** [CAS Number: 7732-18-5. Wt %:40.0 - 70.0. Component Name: Water.] [Case Number: 68037-59-2. Wt % 5.0 - 7.0. Component Name: Dimethyl, methylhydrogen siloxane]. [Case Number: 2943-75-1. Weight %: 5.0 - 7.0. Component Name: N-Octyltriethoxysilane.] [Case Name: 9002-92-0. Wt %: 0.5-1.0. Component Name: Polyethylene oxide lauryl ether.]

**Pennsylvania:** [Case Number: 68037-59-2. Wt %: 40.0 - 70.0. Component Name: Water.] [Case Number: 68037-59-2.

Wt%: 5.0 - 7.0 Component Name: Dimethyl, methylhydrogen siloxane.] [Case Number: 2943-75-1. Wt %:5.0 - 7.0 Component Name: N-Octyltriethoxysilane].

### SECTION 16: OTHER INFORMATION

All terms and abbreviations have been defined in various government publications, or are standard chemical terms used by IUPAC.

The data and recommendations herein are based upon our research and the research of others, and are believed to be accurate. However, no warranty or guarantee of their accuracy is made; and the products are distributed without warranty, expressed or implied, including the limited warranties of merchantability of fitness for particular purpose. The recommended industrial hygiene and safe handling procedures are believed to be appropriate.

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