



MATERIAL SAFETY DATA SHEET

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Effective Date: 7/01/05 Supercedes: 5/06/04

Emergency #: 405-745-2070

SECTION I. IDENTIFICATION

PRODUCT NAME: **STAINGUARD-WB**

CHEMICAL NAME & SYNONYMS: Water Repellent / Water Based Mixture of Modified Fluorosilane/Siloxanes

PROCESSORS NAME: Chemical Products Industries, Inc., 7649 Southwest 34th Street,
Oklahoma City, OK 73179, (800) 624-4356

CAS #: Not Issued

CHEMICAL FAMILY: Water Solution of Modified Fluorosilane /Siloxanes

CHEMICAL FORMULA: Water Based Mixture of silicon, oxygen, carbon and hydrogen containing chemical compounds with a basic structural unit of R_2SiO , where R is an hydrocarbon group.

SECTION II. COMPONENTS

<u>INGREDIENTS</u>	<u>CAS NUMBER</u>	<u>% BY WT*</u>
- Fluorosilane Silane/Siloxanes	Mixture	<10.0 %
- Trace Chemicals		1.0 %
- Water	007732-18-5	Balance

* The concentrations shown in the substance list are maximum or ceiling levels (weight %) to be used for calculations for regulations.

Per California South Coast Air Quality Management District (SCAQMD) RULE 443.1, this product has a volatile solvents content (VOC) of 0.422 pounds/gallon or 50.6 grams/kg - VOC Compliant.

SECTION III. HEALTH HAZARDS

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

<u>HEALTH (BLUE)</u>	<u>FLAMMABILITY (RED)</u>	<u>REACTIVITY (YELLOW)</u>	<u>CLOTHING</u>
NFPA: 1	NFPA: 0	NFPA: 0	NFPA:
HMIS: 1	HMIS: 0	HMIS: 0	HMIS: PP = B

ACUTE EFFECTS OF OVEREXPOSURE:

- EYE: Mildly irritating to the eyes.
- SKIN: No skin irritation expected. May aggravate existing dermatitis.
- INHALATION: Breathing mist may cause mild irritation to upper respiratory tract.
- INGESTION: None known. Do not take internally.

CHRONIC EFFECTS OF OVEREXPOSURE: Repeated prolonged contact may produce irritation.

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

SECTION IV. FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES:

- EYE: Immediately flush eyes with running water for at least 15 minutes. If irritation or adverse symptoms develop, seek medical attention.
- SKIN: Minimal effect on contact, if irritation occurs wash skin with soap and water. If irritation or adverse symptoms continue, seek medical attention.
- INHALATION: Remove to fresh air.
- INGESTION: Do not take internally. Drink large quantities of milk or water. Do not induce vomiting. Seek medical attention if stomach upset occurs.

SECTION V. FIRE AND EXPLOSION HAZARD DATA

STAINGUARD-WB does not support combustion and is not considered a fire or explosive hazard. When involved in a fire, it may emit vapors containing the siloxane containing materials, carbon oxides and silicon dioxide. These materials should be considered irritants. In addition, the silicon dioxide dust has a PEL of 6 mg/m³ and a ACGIH Total Dust of 10 mg/m³. It is possible that **STAINGUARD-WB** can create SiO₂ dust levels greater than these PEL and AVGIH limits when decomposed in a fire or explosion. For these reasons, fire fighters should wear self-contained breathing apparatus and full protective clothing. Heated closed containers may burst due to steam pressure. Cool containers with water.

SECTION VI. SPILL, LEAK & DISPOSAL PROCEDURES

Contain spills immediately with inert material to prevent waterway entry. Transfer liquids and solid diking materials to suitable containers for recovery or disposal.

SECTION VII. HANDLING AND STORAGE

Handle in a well ventilated area. Maintain positive pressure in interior of occupied buildings during exterior application and close fresh air intakes in area of application. Avoid inhaling vapors and mists, and getting in eyes, on skin or on clothing. Wash hands and other contaminated areas thoroughly with soap and water after handling this product and before eating or smoking. Wash contaminated clothing and equipment thoroughly before reuse.

Normal warehouse storage in a closed container is adequate. Storage temperature should be above freezing and below 120°F. Drain equipment and flush with water to clean. Shelf life is 18 months in original sealed container.

SECTION VIII. PERSONAL PROTECTION

Appropriate personal protective equipment necessary to prevent repeated or prolonged contact should be worn. Mechanical ventilation is recommended. Avoid breathing mist or vapors. Where high concentrations of mist occurs, a respirator with appropriate dust and mist removal capabilities is recommended. Eye protection, resistant clothing and resistant boots should be worn where 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. Wash contaminated clothing before reuse. Do not take internally. An eye wash station should be available.

SECTION IX. - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Milk white, Liquid
ODOR:	Pleasant
pH: (Typical)	8
BOILING POINT, 760 mm Hg:	212°F, 100°C
VAPOR PRESSURE:	33.33 hpa
DENSITY:	0.95 g/cm ³
SOLUBILITY IN WATER, by wt.:	100 %
VISCOSITY:	Similar to water
EVAPORATION RATE (Butyl Acetate = 1)	Similar to Water

SECTION X. STABILITY AND REACTIVITY

STAINGUARD-WB reacts with silica in concrete and masonry in the presence of ultraviolet light and moisture forming bonds with the substrate in normal use. The organic content of the aqueous mixture will react with bases, acids and oxidizers producing heat, polymers and oxidation by-products. Vaporization of small quantities of water controls any heat released. Atomization, vaporization or combustion forms aerosols which can carry siloxane containing materials, carbon oxides and silicon dioxide into the atmosphere. Hazardous polymerization will not occur.

SECTION XI. TOXICOLOGICAL INFORMATION

This product is known to be a mild eye and upper respiratory irritant. OSHA PEL and ACGIH TLV has not been established; however, the low vapor pressure of siloxane containing materials in **STAINGUARD-WB** should produce air concentrations below expected exposure limits. The LD50 has not been determined, but should be relatively high based upon typical silicone toxicity. Do not take internally, avoid breathing mist and minimize eye and skin contact.

HEALTH HAZARD CATEGORIES: None of the product's ingredients are found on any lists of hazardous, carcinogenic or banned chemical agents or materials generated by them.

SECTION XII. ECOLOGICAL INFORMATION

There is little or no risk to surrounding vegetation during application, and overspray on non-targeted areas can be easily removed with soap and water.

SECTION XIII. DISPOSAL CONSIDERATIONS

The material is non-hazardous. Small quantities may be cleaned with soap and water, 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.

SECTION XIV. TRANSPORT INFORMATION

DOT SHIPPING NAME (49CFR 172.101):	Non Regulated
- DOT ID# (49CFR 172.101):	Non Regulated
- DOT HAZARD CLASS:	Non Flammable Liquid, NOS
- MARKING:	None Required
- LABEL:	None Required
- PLACARD:	None Required
- HAZARD (29 CFR 1910.1200):	Non-Flammable

SECTION XV. REGULATORY INFORMATION

FEDERAL

This product is non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910-1200). All components are on the Confidential or Non-Confidential TSCA Inventory List. The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) inventory and do not have special toxic substances warning requirements.

None of the components in this product require notification of the National Response Center under the Comprehensive Environmental Response Compensation, and Liability Act of 1980 (CERCLA) per 40 CFR 302.4.

None of the components in this product require reporting under Superfund Amendment and Reauthorization Act of 1986 (SARA) Title III as emergency planning or release reporting per 40 CFR 355 (used for SARA 302, 304, 311 and 312). The components also do not require annual reporting as a toxic chemical under SARA Title III per 40 CFR 372 (for SARA 313). This product contains no chemicals subject to SARA Title III, Section -13. Part 372 reporting requirements.

STATE RIGHT-TO-KNOW

Under California Proposition 65, this product contains no listed substances at levels which would require a warning as a product known to the to cause cancer, birth defects or other reproductive harm.

Under the Massachusetts Right-To-Know Law, this product contains no listed substances at levels that require reporting per the Substance List.

Under the Pennsylvania Right-To-Know Law, this product contains no listed substances at levels that require reporting per the Hazardous Substance List.

SECTION XVI. OTHER INFORMATION

APPROVED BY: _____
Floyd E. Farha, Ph.D.

DATE: 7/01/05
SUPERCEDES: 5/06/04

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

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