

**Solo Seal****MATERIAL SAFETY DATA SHEET**

Effective Date: 1/1/12

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Emergency # (479) 255-6101

**SECTION I: IDENTIFICATION**

PRODUCT NAME: Solo Seal  
 CHEMICAL NAME & SYNONYMS: Water Based Mixture of Modified Siloxanes / Water Repellent  
 PROCESSORS NAME: VanHearron Inc. 410 S. Coker, Greenwood, AR 72936 Phone: (479) 255-6101  
 CAS #: Not Issued  
 CHEMICAL FAMILY: Water Solution of Proprietary Modified Siloxanes

**SECTION II: COMPONENTS**

INGREDIENTS	CAS NUMBER	% BY WT*
Dimethyl, Methylhydrogen siloxane	68037-59-2	5-7 %
N-Octyltriethoxysilane	2943-75-1	5-7 %
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 < 25 g/l VOC Compliant.

**SECTION III: HEALTH HAZARDS**

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

HEALTH (BLUE)	FLAMMABILITY (RED)	REACTIVITY (YELLOW)	CLOTHING
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. Seek medical attention.  
 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. Seek medical attention.

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: EMERGENCY FIRST AID PROCEDURES**

EYE: Immediately flush eyes with running water for at least 15 minutes. Seek medical attention.  
 SKIN: Minimal effect on contact. Wash skin with soap and water. If irritation or adverse symptoms, seek medical attention.  
 INHALATION: Remove to fresh air. If breathing difficult, seek immediate medical attention.  
 INGESTION: Do not take internally. Drink large quantities water. Do not induce vomiting. Seek medical attention immediately.

**SECTION V: FIRE AND EXPLOSION HAZARD DATA**

Does not support combustion and is not considered a fire or explosive hazard. Determine need to evacuate or isolate area. When involved in a fire, it may emit vapors and decomposition products containing the siloxane containing materials, carbon oxides, nitrogen oxides, hydrogen, formaldehyde, and silicon dioxide. These materials should be considered irritants. The silicon dioxide dust has a PEL of 6 mg/m<sup>3</sup> and a ACGIH Total Dust of 10 mg/m<sup>3</sup>. Possible that can create SiO<sub>2</sub> 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.

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## SECTION VI: SPILL, LEAK & DISPOSAL PROCEDURES

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Contain spills immediately with inert material to prevent waterway entry. Observe all person protection. For large spills provide diking or other suitable absorbent containment. Transfer liquids and solid diking materials to suitable vented containers for recovery and appropriate disposal.

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## SECTION VII: HANDLING AND STORAGE

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Use in well-ventilated area away from sparks and open flames. Do not smoke in vicinity. 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 vented container is adequate. Do not repackage or store in glass container. Storage temperature should be above freezing and below 120°F. Drain equipment and flush with water to clean.

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## SECTION VIII: PERSONAL PROTECTION

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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. Eye wash station should be available. Do not smoke in vicinity of application.

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## SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE:	Milk white
ODOR:	Very slight odor
pH: (Typical)	5
BOILING POINT, 760 mm Hg:	212°F, 100°C
VAPOR PRESSURE, at 20 deg. C:	17.5 mm Hg
LIQUID DENSITY :	1 g/cc
SOLUBILITY IN WATER, by wt.:	100 %
SPECIFIC GRAVITY (H <sub>2</sub> O = 1):	1
PERCENT VOLATILE BY VOLUME:	5.5%
PERCENT VOLATILE BY WEIGHT:	5.5%
VISCOSITY:	Similar to water
EVAPORATION RATE (Butyl Acetate = 1)	Similar to Water
PHYSICAL STATE:	iquid

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## SECTION X: STABILITY AND REACTIVITY

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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.

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## SECTION XI: TOXICOLOGICAL INFORMATION

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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 product 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.

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## SECTION XII: ECOLOGICAL INFORMATION

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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.

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### SECTION XIII: DISPOSAL

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Small quantities may be cleaned with soap and water. 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.

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### SECTION XIV: TRANSPORT

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DOT SHIPPING NAME (49CFR 172.101):	Non Flammable Liquid, NOS, Water Based Mixture of Siloxanes
DOT ID# (49CFR 172.101):	Non Regulated
LABEL:	NONE REQUIRED
DOT HAZARD CLASS:	Non Flammable Liquid, NOS
PLACARD:	NONE REQUIRED
HAZARD ( 29 CFR 1910.1200):	Non-Flammable
MARKING:	NONE REQUIRED

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### SECTION XV: REGULATORY INFORMATION

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#### 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 acetaldehyde listed by California under the Safe Drinking Water and Toxic Act of 1986 as a product known to cause cancer, birth defects or other reproductive harm. Under the Massachusetts Right-To-Know Law, this product contains acetaldehyde a product known to cause cancer, birth defects or other reproductive harm. Under the Pennsylvania Right-To-Know Law, this product contains dimethyl, methylhydrogen siloxane, and N-Octyltriethoxysilane. Under the New Jersey Right-to-Know Law this product contains dimethyl, methylhydrogen siloxane, N-Octyltriethoxysilane and polyethylene oxide lauryl ether.

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### SECTION XVI: OTHER INFORMATION

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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. Neither this data sheet nor any statement contained herein grants or extends any license, express or implied, in connection with patents issued or pending which may be the property of the manufacturer or others. The manufacturer makes no warranties, expressed or implied, as to the accuracy or adequacy of the information contained herein. The manufacturer shall not be liable to the vendee, the vendee's employees or anyone for any direct, special or consequential damages arising out of or in connection with this accuracy, adequacy or furnishing of such information.