

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION			
Material Identification: MicroGuard AD702 Concrete Waterproofing Sealer (Part A)			
Adsil, Inc. 1901 Mason Avenue, Suite 101 Daytona Beach, FL 32117	386-274-1382 PHONE 386-274-1798 FAX CHEMTREC: 1-800-424-9300		
SECTION 2: OSHA HAZARDOUS COMPONENTS			
<u>C.A.S. Number(s)</u>	<u>Wt%</u>	<u>Components</u>	<u>Exposure Limits</u>
Proprietary mixture	98%	Alkoxysilanes	No exposure limits established
67-56-1	2%	Methyl Alcohol	TWA 200 ppm, STEL 250 ppm ACGIH TLV-skin TWA 200 ppm
The above components are hazardous as defined in 29 CFR 1910.1200. NFPA/HMIS Code: Health 1, Flammability 3, Reactivity 0			
SECTION 3: PHYSICAL DATA FOR MATERIAL			
<p>pH: Not Applicable (non-aqueous)</p> <p>Solubility in water: Not Determined</p> <p>Appearance: Clear Liquid</p> <p>Odor: Strong Odor</p> <p>Specific Gravity @ 25° C: 0.95</p> <p>Boiling Point: >35° C., >95° F.</p> <p>VOC Content: 613 g/liter (Components A, B, C mixed); Method 24</p>			
SECTION 4: FIRE & EXPLOSION HAZARD OF MATERIAL			
<p>Flash Point: 46.9° F./8.3° C.</p> <p>Fire Hazards: Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products; Silicon Dioxide, Carbon Dioxide and traces of incompletely burned carbon compounds, Formaldehyde.</p> <p>Unusual Fire Hazards: 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. Vapors are heavier than air and can travel along the ground to remote ignition sources.</p> <p>Extinguishing Media: Carbon Dioxide (CO₂), Water Fog, Dry Chemical</p> <p>Fire Fighting Procedures: Self contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals. Heat exposure pressurizes closed containers. Evacuate the area in cases of overheating or fire.</p>			
SECTION 5: HEALTH & HAZARD DATA			
<p>Eye Contact: Causes eye irritation.</p> <p>Skin Contact: Causes skin irritation.</p> <p>Inhalation: Spray mist causes damage to respiratory tract.</p> <p>Ingestion: Product generates methyl alcohol, which may cause blindness and possibly death if swallowed.</p> <p>Signs & Symptoms of Exposure: Burning pain in the nose and throat (inhalation), pain, redness and tearing (eye exposure), itching or burning (skin exposure).</p>			

Special Hazards: Carcinogens – none known
 Teratogens – none known
 Mutagens – none known
 Reproductive Toxins – none known
 Sensitizers – When heated to temperatures above 150° C. in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer and an irritant to the eyes, nose, throat, skin and digestive system.

Warning: Product will give off additional methyl alcohol when exposed to moisture or humidity.

Comments: Methyl Alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposure within guidelines of OSHA PEL:

TWA 200 ppm and ACGIH TLV-skin; TWA 200 ppm, STEL 250 ppm.

SECTION 6: FIRST AID MEASURES

Eyes: Immediately flush with clean water for 15 minutes. Get medical attention.

Skin: No first aid should be needed.

Inhalation: Remove to fresh air. Get medical attention if ill effects persist.

Oral: Get immediate medical attention. Give lukewarm water (pint or ½ liter) if victim is conscious. Do not induce vomiting. Lie down, keep warm and cover eyes to exclude light.

Comments: Treat the same as for methyl alcohol poisoning.

SECTION 7: REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None

Materials to Avoid: Concentrated nitric and sulfuric acids, strong oxidizers, aldehydes, halogens and halogen compounds.

SECTION 8: LEAK OR SPILL INFORMATION

Containment/Clean-up: Disposal of collected product, residues and cleanup 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 spontaneous combustion, store rags, mops, absorbent, etc; used during clean up only in appropriate containers or covered with water. Mop, wipe or soak up with absorbent material 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 washing with mild, caustic detergents or solutions, or high-pressure steam for larger areas. Observe any safety precautions applicable to the cleaning material used.

SECTION 9: SPECIAL PROTECTION INFORMATION

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.

Gloves: Washing at mealtime and end of shift. No special protection is needed.

Eye Protection: Safety glasses at a minimum.

Protective Equipment: Eyewash station (bottle) should be within direct access of work area.

Personal Hygiene: Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 10: TRANSPORT INFORMATION**DOT Information** (49 CFR 172.101)**Proper Shipping Name:** COATING SOLUTION**Hazard Technical Name:** ALKOXYSILANES**Hazard Class:** 3**UN Number:** UN1139**Packing Group:** II**SECTION 11: HANDLING & STORAGE****Handling:** No special precautions.**Storage:** Keep the container closed and away from heat, sparks and open flame. Store away from water or moisture.**SECTION 12: REGULATORY INFORMATION****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 CERCLA Extremely Hazardous Substances:** None**Section 304 CERCLA Hazardous Substances:** None**Section 312 Hazard Class:**

Acute: Yes

Chronic: Yes

Fire: Yes

Pressure: No

Reactive: No

Section 313 Toxic Chemicals:

<u>CAS Number</u>	<u>Wt%</u>	<u>Component Name</u>
67-56-1	2.0	Methyl Alcohol

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.

None known.

Revision Date: 05/07**Prepared by:** Adsil - MSDS Coordinator
Daytona Beach, Florida 32117
PH: 386-274-1382

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION			
Material Identification: MicroGuard AD702 Concrete Waterproofing Sealer (Part B)			
Adsil, Inc. 1901 Mason Avenue, Suite 101 Daytona Beach, FL 32117	386-274-1382 PHONE 386-274-1798 FAX CHEMTREC: 1-800-424-9300		
SECTION 2: OSHA HAZARDOUS COMPONENTS			
<u>C.A.S. Number(s)</u>	<u>Wt%</u>	<u>Components</u>	<u>Exposure Limits</u>
68412-37-3	78-82%	Polydiethoxysiloxane	TWA 50 ppm
5593-70-4	18-20%	Tetra n-butyl Titanate	None Established
NFPA/HMIS Code: Health 2, Flammability 3, Reactivity 1			
SECTION 3: PHYSICAL DATA FOR MATERIAL			
<p>pH: Not Applicable (non-aqueous)</p> <p>Solubility in water: Hydrolyzes</p> <p>Appearance: Clear Liquid to Pale Yellow</p> <p>Odor: Moderate Odor</p> <p>Specific Gravity@ 25° C: 1.05</p> <p>Boiling Point: 172° C./342° F.</p> <p>VOC Content: 613 g/liter (Components A, B, C mixed); Method 24</p>			
SECTION 4: FIRE & EXPLOSION HAZARD OF MATERIAL			
<p>Flash Point: 116° F./46° C.</p> <p>Fire Hazards: If this material is exposed to water or to moist air, it will react, producing ethyl alcohol. This will cause the flash point to decrease. Use explosion-proof exhaust systems to vent fumes resulting from hydrolysis or pyrolysis during use.</p> <p>Unusual Fire Hazards: 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. Vapors are heavier than air and can travel along the ground to remote ignition sources.</p> <p>Extinguishing Media: Foam, Dry Chemical, CO₂.</p> <p>Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.</p>			
SECTION 5: HEALTH & HAZARD DATA			
<p>Eye Contact: May cause severe eye irritation with tearing, pain or blurred vision.</p> <p>Skin Contact: Causes skin irritation with itching, burning, redness, swelling or rash.</p> <p>Inhalation: May cause irritation of the nose and throat with sneezing, sore throat or runny nose.</p> <p>Ingestion: Get immediate medical attention. If conscious, give lukewarm water (pint or ½ liter) to dilute digested material. Do not induce vomiting.</p> <p>Signs & Symptoms of Exposure: Burning pain in the nose and throat (inhalation), pain, redness and tearing (eye exposure), itching or burning (skin exposure).</p> <p>Special Hazards: Carcinogens – none known Teratogens – none known Mutagens – none known Reproductive Toxins – none known</p>			

SECTION 6: FIRST AID MEASURES

Eyes: Immediately flush with clean water for 15 minutes. Get medical attention.

Skin: Flush skin with water after contact. Wash contaminated clothing before reuse.

Inhalation: Remove to fresh air. Get medical attention if ill effects persist.

Oral: If swallowed, do not induce vomiting. Give lukewarm water (pint or ½ liter). Never give anything by mouth to an unconscious person. Get immediate medical attention.

Comments: Treat the same as for methyl alcohol poisoning.

SECTION 7: REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Condition leading to polymerization is hydrolysis. Not a hazard.

Conditions to Avoid: Heating generates olefins and other flammable organic compounds.

Materials to Avoid: Incompatible with water. Hydrolyzes very rapidly forming butanol.

SECTION 8: LEAK OR SPILL INFORMATION

Containment/Clean-up: Disposal of collected product, residues and cleanup 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. Soak up with absorbent materials. 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. Place in container for disposal. Do not apply water to a large spill.

SECTION 9: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use NIOSH (black cartridge, minimum) approved 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.

Gloves: Wear latex gloves.

Eye Protection: Wear coverall chemical splash goggles.

Protective Equipment: Eyewash station (or bottle) should be within direct access of the work area.

Personal Hygiene: Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 10: TRANSPORT INFORMATION

DOT Information (49 CFR 172.101)

Proper Shipping Name: COATING SOLUTION

Hazard Technical Name: ALKOXYSILANE

Hazard Class: 3

UN Number: UN1139

Packing Group: II

SECTION 11: HANDLING & STORAGE

Handling: Do not get in eyes, on skin or on clothing. Avoid breathing vapors or mist.

Storage: Keep the container closed and away from heat, sparks and open flame. Store away from water or moisture.

SECTION 12: REGULATORY INFORMATION

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 CERCLA Extremely Hazardous Substances: None

Section 304 CERCLA Hazardous Substances: None

Section 312 Hazard Class:

Acute: Yes

Chronic: Yes

Fire: Yes

Pressure: No

Reactive: No

Section 313 Toxic Chemicals: None

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.

None known.

Revision Date: 05/07

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Daytona Beach, Florida 32117
PH: 386-274-1382

SECTION 6: FIRST AID MEASURES

Eyes: Immediately flush with clean water for 15 minutes. Get medical attention.

Skin: No first aid should be needed.

Inhalation: Remove to fresh air. Get medical attention if ill effects persist.

Oral: Get immediate medical attention. Give lukewarm water (pint or ½ liter) to dilute ingested material. Do not induce vomiting. Lie down, keep warm and cover eyes to exclude light.

Comments: Treat the same as methyl alcohol poisoning.

SECTION 7: REACTIVITY DATA

Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

Materials to Avoid: None.

SECTION 8: LEAK OR SPILL INFORMATION

Containment/Clean-up: Disposal of collected product, residues and cleanup 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 cleanup only in appropriate containers or covered with water. 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 residue by high-pressure steam or wash with a mild, caustic detergent solution. Observe any safety precautions applicable to the cleaning material used..

SECTION 9: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use approved NIOSH respiratory protection (black cartridge, minimum) 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.

Gloves: Washing at mealtime and end of shift. No special protection is needed.

Eye Protection: Safety glasses at a minimum.

Protective Equipment: Eye wash station (or bottle) should be within direct access of the work area.

Personal Hygiene: Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 10: TRANSPORT INFORMATION

DOT Information (49 CFR 172.101)

Proper Shipping Name: COATING SOLUTION

Hazard Technical Name: SOLVENT MIXTURE

Hazard Class: 3

UN Number: UN1139

Packing Group: II

SECTION 11: HANDLING & STORAGE

Handling: No special handling is needed.

Storage: Keep container closed and store away from heat, sparks and open flame.

SECTION 12: REGULATORY INFORMATION

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 CERCLA Extremely Hazardous Substances: None

Section 304 CERCLA Hazardous Substances: None

Section 312 Hazard Class:

Acute: Yes

Chronic: Yes

Fire: Yes

Pressure: No

Reactive: No

Section 313 Toxic Chemicals: None

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.

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