

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Material Identification: MicroGuard Concrete Clear Waterproofing Sealer AD702 (Part A)

Adsil P.O. Box 353880 Palm Coast, FL 32135-3880	386-445-8239 PHONE 386-445-0471 FAX CHEMTREC: 1-800-424-9300
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SECTION 2: OSHA HAZARDOUS COMPONENTS

<u>C.A.S. Number(s)</u>	<u>Wt%</u>	<u>Components</u>	<u>Exposure Limits</u>
Proprietary mixture	96-98%	Alkoxysilanes	TWA 50 ppm, PEL 10 ppm
67-56-1	2-4%	Methyl Alcohol	TWA 200 ppm, STEL 250 ppm ACGIH TLV-skin TWA 200 ppm

NEPA/HMIS Code: Health 1, Flammability 3, Reactivity 0

SECTION 3: PHYSICAL DATA FOR MATERIAL

pH: Not Applicable (non-aqueous)
Solubility in water: Not Determined
Appearance: Clear Liquid
Odor: Strong Odor
Specific Gravity @ 25° C: 0.95
Boiling Point: >35° C, >95° F
VOC Content: 4.8 lbs./gal., 583 g./liter (Components A, B, C mixed)

SECTION 4: FIRE & EXPLOSION HAZARD OF MATERIAL

Flash Point: 46.9° F / 8.3° C

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.

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

Extinguishing Media: Carbon Dioxide (CO₂), Water Fog, Dry Chemical

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

SECTION 5: HEALTH & HAZARD DATA

Eye Contact: Causes eye irritation.

Skin Contact: Causes skin irritation

Inhalation: Spray mist causes damage to respiratory tract.

Ingestion: Product generates methyl alcohol, which may cause blindness and possibly death if swallowed

Signs & Symptoms of Exposure: Burning pain in the nose and throat (inhalation), pain, redness and tearing (eye exposure), itching or burning (skin exposure).

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: FLAMMABLE LIQUID, n.o.s

Hazard Technical Name: METHOXY-SILANE/METHANOL

Hazard Class: 3

UN Number: UN1993

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

EPA SARA Title III Chemical Listings:

Section 304 CERCLA Extremely Hazardous Substances: None

Section 304 CERCLA Hazardous Substances:

<u>C.A.S. Number</u>	<u>Wt%</u>	<u>Component Name</u>
67-56-1	2%	Methyl Alcohol (5000.00 lb rq)

Section 312 Hazard Class:

Acute: Yes
Chronic: Yes
Fire: Yes
Pressure: No
Reactive: No

Section 313 Toxic Chemicals:

<u>C.A.S. Number</u>	<u>Wt%</u>	<u>Component Name</u>
67-56-1	2%	Methyl Alcohol

Revision Date: 05/01/03

Prepared by: Adsil MSDS Coordinator
Palm Coast, Florida 32137
386-445-8239

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Material Identification: MicroGuard Concrete Clear Waterproofing Sealer AD702 (Part B)

Adsil
P.O. Box 353880
Palm Coast, FL 32135-3880

386-445-8239 PHONE
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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 10 ppm, PEL 10 ppm
5593-70-4	18-20%	Tetra n-butyl Titanate	None Established

NFPA/HMIS Code: Health 3, Flammability 2, Reactivity 1

SECTION 3: PHYSICAL DATA FOR MATERIAL

pH: Not Applicable (non-aqueous)
Solubility in water: Hydrolyzes
Appearance: Clear Liquid to Pale Yellow
Odor: Moderate Odor
Specific Gravity@ 25° C: 1.05
Boiling Point: 172° C / 342° F.
VOC Content: 4.8 lbs./gal., 583 g./liter (Components A, B, C mixed)

SECTION 4: FIRE & EXPLOSION HAZARD OF MATERIAL

Flash Point: 116° F / 46° C
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.
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.
Extinguishing Media: Foam, Dry Chemical, CO₂
Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals.

SECTION 5: HEALTH & HAZARD DATA

Eye Contact: May cause severe eye irritation with tearing, pain or blurred vision.
Skin Contact: Causes skin irritation with itching, burning, redness, swelling or rash.
Inhalation: May cause irritation of the nose and throat with sneezing, sore throat or runny nose.
Ingestion: Get immediate medical attention. If conscious, give lukewarm water (pint or ½ liter) to dilute digested material. Do not induce vomiting.
Signs & Symptoms of Exposure: Burning pain in the nose and throat (inhalation), pain, redness and tearing (eye exposure), itching or burning (skin exposure).
Special Hazards: Carcinogens - none known
 Teratogens - none known
 Mutagens - none known
 Reproductive Toxins - none known

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 1/2 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: FLAMMABLE LIQUID, n.o.s.

Hazard Technical Name: (Contains Tetraethyl Silicate, Butanol Solution)

Hazard Class: 3

UN Number: UN1993

Packing Group: III

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

EPA SARA Title III Chemical Listings:

Section 304 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

Revision Date: 05/01/03

Prepared by: Adsil MSDS Coordinator
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MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Material Identification: MicroGuard Concrete Clear Waterproofing Sealer AD702 (Part C)

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Palm Coast, FL 32135-3880

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SECTION 2: OSHA HAZARDOUS COMPONENTS

<u>C.A.S. Number(s)</u>	<u>Wt%</u>	<u>Components</u>	<u>Exposure Limits</u>
67-63-0	20-22%	Isopropyl Alcohol	TWA 400 ppm, STEL 500 ppm
1569-02-4	18-20%	Glycol Ether PE	Not Established
1569-01-3	16-18%	Glycol Ether PNP	Not Established
7732-18-5	47-44%	Distilled Water	None

NFPA/HMIS Code: Health 1, Flammability 2, Reactivity 0

SECTION 3: PHYSICAL DATA FOR MATERIAL

Solubility in water: Complete
Appearance: Clear Liquid
Odor: Moderate Odor (alcohol)
Specific Gravity@ 25° C: 0.89
Boiling Point: 90.0° C., 194.0° F
VOC Content: 4.8 lbs /gal., 583 g /liter (Components A, B, C mixed)

SECTION 4: FIRE & EXPLOSION HAZARD OF MATERIAL

Flash Point: 62.0° F/13.7° C
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
Extinguishing Media: Carbon Dioxide (CO₂), Water Fog, Dry Chemical.
Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals. Heat exposure pressurizes closed containers. Cool with water spray. Evacuate the area in cases of overheating or fire.

SECTION 5: HEALTH & HAZARD DATA

Eye Contact: Causes eye irritation.
Skin Contact: Causes skin irritation.
Inhalation: Spray mist may cause irritation.
Ingestion: Irritation to gastrointestinal tract, causing abdominal pain and vomiting
Signs & Symptoms of Exposure: Burning pain in the nose and throat (inhalation), pain, redness and tearing (eye exposure), itching or burning (skin exposure)
Special Hazards: Carcinogens - none known
 Teratogens - none known
 Mutagens - none known
 Reproductive Toxins - none known

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

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: FLAMMABLE LIQUID, n.o.s.

Hazard Technical Name: (Contains Isopropanol)

Hazard Class: 3

UN Number: UN1993

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

EPA SARA Title III Chemical Listings:

Section 304 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

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