



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): AguaPath
Product Code(s): Not available.
Uses: A non-slip coating for walkways and pedestrian areas.
Company: Agua-Seal Waterproofing Systems USA LLC
Address: 2506 Birkenhead Drive; Charleston, SC 29414; USA
Telephone Number: (843) 614-9663 Fax Number: Not available.
Emergency Telephone Number: Not available.
Date Issued: August 15, 2017 Date Revised: August 15, 2017

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification: **WARNING**
Skin Sensitization (Category 1)
Aquatic Chronic Toxicity (Category 3)



GHS Hazard Statements: May cause an allergic skin reaction
Harmful to aquatic life with long lasting effects

GHS Precautionary Statements:	<u>Prevention:</u>	<u>Response:</u>
	Avoid breathing dust/mist/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Avoid release to the environment.	If on skin: Wash with plenty of water/soap. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.
	<u>Storage:</u>	<u>Disposal:</u>
	None.	Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards Not Otherwise Classified: None.

GHS Assessment: Approximately 15% of this mixture consists of ingredient(s) of unknown acute toxicity.
Approximately 48% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Water	7732-18-5	231-791-2	20.0 - 40.0%
Acrylic polymer(s)	Proprietary	---	20.0 - 40.0%
Barium sulfate	7727-43-7	231-784-4	10.0 - 25.0%
Titanium dioxide	13463-67-7	236-675-5	5.0 - 10.0%
Mica	12001-26-2	601-648-2	5.0 - 10.0%
Octyl-2H-isothiazol-3-one, 2-	26530-20-1	247-761-7	0.1 - 0.3%
Silica, quartz	14808-60-7	238-878-4	0.1 - 0.2%

Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

First Aid - Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation develops.

First Aid - Skin: In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately if irritation or rash develops and/or persists. Wash contaminated clothing before reuse.

First Aid - Ingestion: If swallowed and feel unwell, call a physician or poison control center. DO NOT induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

First Aid - Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Important Symptoms / Effects – Acute and Delayed: Tissue inflammation, rash.

Advice to Physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing Media: Treat surrounding material. Water spray, dry chemical, carbon dioxide, or foam is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Specific Hazards: This product is not flammable. This product may give rise to hazardous vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.

Protective equipment and procedures for fire-fighters: Wear full protective clothing and self-contained breathing apparatus.

Additional Advice: None.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Spill Procedures: Wipe up spills with an absorbent towel/material and transfer into suitable containers for recovery or disposal. Finally flush area with water.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- Personal Precautions: Wear suitable protective clothing and equipment.
- Environmental Precautions: Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

SECTION 7 HANDLING AND STORAGE

- Handling: Wear appropriate personal protection (See Section 8) when handling this material. The work area should be equipped with a safety shower and eye wash station. If exposed to the liquid, avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing dusts, mist or spray. Use in a well-ventilated area.
- Storage: Keep container(s) tightly closed. Use and store this material at temperatures below 30°C (86°F) away from heat, direct sunlight, and hot metal surfaces. Do not freeze. Keep away from any incompatible materials (see Section 10).
- Additional Advice: Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Occupational Exposure Standards: Exposure limits are listed below, if they exist.
- Water: None.
- Acrylic polymer(s): None.
- Barium sulfate: ACGIH TLV: 10 mg/m³ TWA.
NIOSH REL: 5 mg/m³ TWA (respirable).
NIOSH REL: 10 mg/m³ TWA (total).
OSHA PEL: 5 mg/m³ TWA (respirable).
OSHA PEL: 15 mg/m³ TWA (total).
- Titanium dioxide: ACGIH TLV: 3 mg/m³ TWA (respirable).
ACGIH TLV: 10 mg/m³ TWA (inhalable).
OSHA PEL: 15 mg/m³ TWA (total dust).
- Mica: ACGIH TLV: 3 mg/m³ TWA (respirable).
NIOSH REL: 3 mg/m³ REL (respirable).
OSHA: 20 mppcf PEL (respirable).
- Octyl-2H-isothiazol-3-one, 2-: None.
- Silica, quartz: ACGIH TLV: 0.05 mg/m³ TWA (respirable).
NIOSH REL: 0.05 mg/m³ (respirable).
OSHA: [10 mg/m³]/[100% SiO₂+2] PEL (respirable).
OSHA: [30 mg/m³]/[100% SiO₂+2] PEL (total).
OSHA PEL: 50 µg/m³ (8 hr) TWA (2016).
- Engineering Control Measures: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
- Respiratory Protection: A NIOSH certified self-contained breathing apparatus or air purifying respirator may be used under conditions where airborne concentrations are expected to exceed exposure limits.
- Hand Protection: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation and skin damage (see glove manufacturer literature for information on permeability).
- Eye Protection: Approved eye protection (safety glasses with side-shields or goggles) to

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Body Protection: Impervious clothing should be worn as needed to prevent skin contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Viscous paste
Color:	White to slightly yellow
Odor:	Faint
Odor Threshold:	Not available.
pH:	ca. 7 - 8
Melting Point/Range (°C/°F):	0°C / 32°F (water)
Boiling Point/Range (°C/°F):	100°C / 212°F (water)
Flash Point (PMCC) (°C/°F):	Non-flammable
Evaporation Rate:	Not available.
Flammability / Explosivity Limits in Air (%):	Not available.
Vapor Pressure:	23.8 mmHg (25°C) (water)
Vapor Density (Air = 1):	Not available.
Relative Density:	ca. 1.5 - 2.0
Solubility in Water:	Miscible
Partition Coefficient:	Not available.
Autoignition Temperature (°C/°F):	Not available.
Decomposition Temperature (°C/°F):	Not available.
Viscosity:	Not available.
Explosive Properties:	None.
Oxidizing Properties:	None.
Volatile Organic Content (VOC) (g/l):	ca. 10 - 20 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	Product will not undergo additional reaction.
Stability:	Stable under normal storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials, excessive heat (> 100°C).
Incompatibilities:	Strong oxidizers, strong acids.
Hazardous Decomposition Products:	Oxides of carbon, oxides of nitrogen, oxides of sulfur, oxides of silicon, amines, metal oxides, acrylic monomers, aliphatic and aromatic compounds, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Toxicity:	<p>This product is not expected to be appreciably toxic. (Water) No data. (Acrylic polymer(s)) Acute toxicity estimate (ATE) (oral) > 2000 mg/kg; Acute toxicity estimate (ATE) (dermal) > 2000 mg/kg (Barium sulfate) Oral LD50 (rat) > 5000 mg/kg; Dermal LD50 (rat) > 2000 mg/kg (similar compound) (Titanium dioxide) Oral LD50 (rat) > 10,000 mg/kg; Dermal LD50 (rabbit) > 10,000 mg/kg; Inhalation LC50 (rat) > 6.8 mg/L (4 hr) (Mica) Oral LD50 (rat) > 22,500 mg/kg (silica) (Octyl-2H-isothiazol-3-one, 2-) Oral LD50 (rat) 550 mg/kg; Dermal LD50 (rabbit) 690 mg/kg (Silica, quartz) Oral LD50 (rat) > 22500 mg/kg; Intravenous LD50 (rat) 500 mg/kg</p>
Skin Corrosion / Irritation:	<p>The product may be slightly irritating to the skin. (Water) No data. (Acrylic polymer(s)) May cause slight skin irritation. (Barium sulfate) Non-irritating to skin (similar compound). (Titanium dioxide) Non-irritating to skin (rabbit). (Mica) No data. (Octyl-2H-isothiazol-3-one, 2-) No data. (Silica, quartz) No data.</p>
Serious Eye Damage / Irritation:	<p>The product may be slightly irritating to the eyes. (Water) No data. (Acrylic polymer(s)) Non-irritating to eyes. (Barium sulfate) Non-irritating to eye (rabbit). (Titanium dioxide) No data. (Mica) May be mechanically Irritating to eyes (silica). (Octyl-2H-isothiazol-3-one, 2-) Irritating to eye with possible corneal damage (rabbit). (Silica, quartz) No data.</p>
Respiratory or Skin Sensitization:	<p>The product may be dermally sensitizing. (Water) No data. (Acrylic polymer(s)) No data. (Barium sulfate) Not dermally sensitizing (Mouse local lymphnode assay – similar compound). (Titanium dioxide) No data. (Mica) No data. (Octyl-2H-isothiazol-3-one, 2-) Expected to possess sensitization potential to very low concentrations (0.05%). (Silica, quartz) No data.</p>
Mutagenicity:	<p>This product is not expected to be mutagenic in its present state. (Water) No data. (Acrylic polymer(s)) No data. (Barium sulfate) Not mutagenic (Ames test, mammalian cell gene mutation assay and in vitro mammalian chromosome aberration test – similar compound). (Titanium dioxide) Not genotoxic in Ames and Syrian hamster embryo cell testing. (Mica) No data. (Octyl-2H-isothiazol-3-one, 2-) Not mutagenic (Ames test). (Silica, quartz) Observed genotoxic effects in lung cells suggest particle biopersistence, solubility, and direct or indirect epithelial cell cytotoxicity may be key factors for the induction of either mutagenic events or target cell death.</p>
Carcinogenicity:	<p>This product is not expected to be carcinogenic in its present state. (Water) No data.</p>

SECTION 11 TOXICOLOGICAL INFORMATION

(Acrylic polymer(s)) No data.
 (Barium sulfate) No evidence of carcinogenic activity in rats dosed up to 2500 ppm for 6 week study (similar compound). This equates to an NOAEL of greater than 102 mg/kg/day.
 (Titanium dioxide) Limited evidence for carcinogenicity in animals. There is inadequate evidence in humans. Studies related to inhalation of airborne particles.
 (Mica) Inadequate evidence for carcinogenicity in experimental animals and humans (silica).
 (Octyl-2H-isothiazol-3-one, 2-) No data.
 (Silica, quartz) Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC). Known to be a human carcinogen (NTP).

Reproductive / Developmental Toxicity: This product is not expected to be reproductively or developmentally harmful.
 (Water) No data.
 (Acrylic polymer(s)) No data.
 (Barium sulfate) No data.
 (Titanium dioxide) No data.
 (Mica) Reproductive or developmental toxicity was not observed in laboratory animals (silica).
 (Octyl-2H-isothiazol-3-one, 2-) No data.
 (Silica, quartz) No data.

Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure: (Water) No data.
 (Acrylic polymer(s)) No data.
 (Barium sulfate) No data.
 (Titanium dioxide) No data.
 (Mica) No data.
 (Octyl-2H-isothiazol-3-one, 2-) No data.
 (Silica, quartz) No data.

Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Repeated Exposure: (Water) No data.
 (Acrylic polymer(s)) No data.
 (Barium sulfate) No data.
 (Titanium dioxide) No data.
 (Mica) Pneumoconiosis has been observed in workers where airborne dusts have been present.
 (Octyl-2H-isothiazol-3-one, 2-) No data.
 (Silica, quartz) Prolonged inhalation may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis.

Aspiration Hazard: This product does not pose an appreciable aspiration hazard.

Additional Information: None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity: This product may be harmful to aquatic species.
 (Water) No data.
 (Acrylic polymer(s)) No data.
 (Barium sulfate) LC50 (Zebra fish) > 152 mg/l/96 hr (similar compound).
 EC50 (Daphnia magna) 32 mg/l/48 hr.
 (Titanium dioxide) No data.
 (Mica) No data.
 (Octyl-2H-isothiazol-3-one, 2-) LC50 (fathead minnow) 0.14 mg/l/96 hr;
 EC50 (Daphnia magna) 0.18 mg/l/48 hr.

SECTION 12 ECOLOGICAL INFORMATION

(Silica, quartz) LC50 (mosquitofish) > 56,000 mg/l/24-96 hr.

Mobility: (Water) No data.
 (Acrylic polymer(s)) No data.
 (Barium sulfate) No data.
 (Titanium dioxide) No data.
 (Mica) No data.
 (Octyl-2H-isothiazol-3-one, 2-) No data.
 (Silica, quartz) No data.

Persistence/Degradability: (Water) No data.
 (Acrylic polymer(s)) Not biodegradable.
 (Barium sulfate) No data.
 (Titanium dioxide) Not biodegradable.
 (Mica) Not biodegradable.
 (Octyl-2H-isothiazol-3-one, 2-) Readily biodegradable.
 (Silica, quartz) Inherently non-degradable.

Bioaccumulation: (Water) No data.
 (Acrylic polymer(s)) No data.
 (Barium sulfate) No data.
 (Titanium dioxide) No data.
 (Mica) No data.
 (Octyl-2H-isothiazol-3-one, 2-) A BCF of 165 indicates the potential for bioaccumulation is low.
 (Silica, quartz) No data.

Other adverse effects: None.

SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions: Prevent the material from entering drains or water courses. Do not discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Product Disposal: Dispose in accordance with all local, state (provincial), and federal regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Container Disposal: Do not remove label until container is thoroughly cleaned. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe way.

SECTION 14 TRANSPORT INFORMATION

DOT (US):

Proper Shipping Name: Not regulated

UN Number: None.

Class: None.

Packaging Group: None.

Reportable Quantity: None.

Marine Pollutant: None.

IATA:

Proper Shipping Name: Not regulated

SECTION 14 TRANSPORT INFORMATION

UN Number: None.
 Class: None.
 Packing Group: None.

IMDG:

Proper Shipping Name: Not regulated
 UN Number: None.
 Class: None.
 Packing Group: None.
 Marine Pollutant: None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

SECTION 15 REGULATORY INFORMATION

US Toxic Substance Control Act: All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canadian Domestic Substance List: One or more component(s) of this product are not listed on the Canadian Domestic Substance List. Limited quantities may be permitted.

EU REACH: One or more component(s) of this product have not been pre-listed or registered under REACH. Limited quantities may be permitted.

TSCA Sec.12(b) Export Notification: This product does not contain a chemical at or above de minimis concentrations which requires reporting.

Canadian WHMIS Classification: D.2.B
 This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

Massachusetts Right-To-Know: This product contains materials subject to disclosure under the Massachusetts Right-To-Know Law:
 - Barium sulfate
 - Titanium dioxide
 - Mica
 - Silica, quartz

New Jersey Right-To-Know: This product contains materials subject to disclosure under the New Jersey Right-To-Know Law:
 - Barium sulfate (4000)
 - Titanium dioxide (1861)
 - Mica (1659)
 - Silica, quartz (1660)

Pennsylvania Right-To-Know: This product contains materials subject to disclosure under the Pennsylvania Right-To-Know Law:
 - Barium sulfate
 - Titanium dioxide
 - Mica
 - Silica, quartz

California Proposition 65: This product contains materials which the State of California has found to cause cancer, birth defects or other reproductive harm:
 - Titanium dioxide (airborne particles)

SECTION 15 REGULATORY INFORMATION

- Silica, quartz (respirable particles)
- Carbon black (airborne particles) (< 0.02%)
- Diphenyl ketone (< 0.05%)
- Methanol (trace residual)

SARA TITLE III-Section 311/312 Categorization (40 CFR 370): Immediate (acute) hazard

SARA TITLE III-Section 313 (40 CFR 372): This product does not contain materials which are listed in Section 313 at or above de minimis concentrations.

CERCLA Hazardous Substance (40 CFR 302): This product does not contain materials subject to reporting under CERCLA and Section 304 of EPCRA.

Water Hazard Class (WGK): This product is slightly water-endangering (WGK=1).

Other Chemical Inventories:

- Australia (AICS): One or more component(s) are not listed.
- China (IECSC): One or more component(s) are not listed.
- Japan (ENCS): One or more component(s) are not listed.
- Korea (KCI): One or more component(s) are not listed.
- Philippines (PICCS): One or more component(s) are not listed.

SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH: 1

NFPA Rating - FIRE: 1

NFPA Rating - REACTIVITY: 0

NFPA Rating - SPECIAL: NONE

SDS Date Issued: August 15, 2017

SDS Current Version: 1.0 Version Date: August 15, 2017

SDS Revision History: v1.0 Initial version.

Abbreviations:

- GHS: Globally Harmonized System of Classification and Labeling of Chemicals
- CAS#: Chemical Abstract Services Number
- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NFPA: National Fire Protection Association
- DOT: US Department of Transportation
- RCRA: US Resource Conservation and Recovery Act
- TLV: Threshold Limit Value
- TWA: Time-Weighted Average
- PEL: Permissible Exposure Limit
- STEL: Short Term Exposure Limit
- WEEL: Workplace Environmental Exposure Levels
- AIHA: American Industrial Hygiene Association
- NTP: National Toxicology Program
- IARC: International Agency for Research on Cancer
- R: Risk
- S: Safety
- LD50: Lethal Dose 50%
- LC50: Lethal Concentration 50%
- EC50: Effective Concentration 50%
- BCF: Bioconcentration Factor

SECTION 16 OTHER INFORMATION

BOD: Biological Oxygen Demand
 Koc: Soil Organic Carbon Partition Coefficient.
 Tlm: Median Tolerance Limit

Key References: United States National Library of Medicine's TOXNET
 Patty's Toxicology, 5th Edition
 European Commission's Institute for Health and Consumer Protection
 American Conference of Governmental Industrial Hygienists
 International Agency for Research on Cancer
 United States National Toxicology Program
 United States Occupational Safety and Health Administration
 United States Department of Transportation
 Supplier Material Safety Data Sheets

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