



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): HardTop
Product Code(s): Not available.
Uses: A top coating to be used in conjunction with AguaSeal Base, with MonoSeal Base or PanelSeal Metal Primer.
Company: AguaSeal Waterproofing Systems USA LLC
Address: 3609 River Road; Johns Island, SC 29455; USA
Telephone Number: (843) 614-9663 Fax Number: Not available.
Emergency Telephone Number: Not available.
Date Issued: May 26, 2016 Date Revised: May 26, 2016

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**
Eye Irritation (Category 2A)
Skin Sensitization (Category 1)



GHS Hazard Statements: Causes serious eye irritation
May cause an allergic skin reaction

GHS Precautionary Statements: Prevention:
Wash hands/skin thoroughly after handling.
Wear protective gloves/eye protection/face protection.
Avoid breathing mist/vapors/spray.
Contaminated work clothing must not be allowed out of the workplace.

Storage:

None.

Response:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water/soap.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 2 HAZARDS IDENTIFICATION

Hazards Not Otherwise Classified: None.

GHS Assessment: Approximately < 1% 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	35.0 - 50.0%
Acrylic polymer	Proprietary	---	20.0 - 35.0%
Titanium dioxide	13463-67-7	236-675-5	10.0 - 25.0%
Diethylene glycol monobutyl ether	112-34-5	203-961-6	1.0 - 5.0%
Amorphous silica	7631-86-9	231-545-4	1.0 - 5.0%
Octyl-2H-isothiazol-3-one, 2-	26530-20-1	247-761-7	< 0.1%
5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one	55965-84-9	611-341-5	< 0.01%

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.

SECTION 5 FIRE FIGHTING MEASURES

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.
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 mist or vapor. 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:	None.
Titanium dioxide:	ACGIH TLV: 3 mg/m ³ TWA (respirable). ACGIH TLV: 10 mg/m ³ TWA (inhalable). OSHA PEL: 15 mg/m ³ TWA (total dust).
Diethylene glycol monobutyl ether:	ACGIH TLV: 10 ppm TWA.
Amorphous silica:	NIOSH REL: 6 mg/m ³ TWA. ACGIH TLV: 3 mg/m ³ TWA (respirable). ACGIH TLV: 10 mg/m ³ TWA (inhalable). OSHA PEL: 20 mpcf.
Octyl-2H-isothiazol-3-one, 2-:	None.
5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one:	None.
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.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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 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, butyl
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. 1.4 - 1.6
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. 80 - 100 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.

SECTION 10 STABILITY AND REACTIVITY

Hazardous Decomposition Products: Oxides of carbon, oxides of nitrogen, 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.

Acute Toxicity: This product is not expected to be appreciably toxic.
 (Water) No data.
 (Acrylic polymer) Acute toxicity estimate (ATE) (oral) > 2000 mg/kg; Acute toxicity estimate (ATE) (dermal) > 2000 mg/kg
 (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)
 (Diethylene glycol monobutyl ether) Oral LD50 (rat) 4500 mg/kg; Dermal LD50 (rabbit) 2700 mg/kg
 (Amorphous silica) Oral LD50 (rat) > 22,500 mg/kg
 (Octyl-2H-isothiazol-3-one, 2-) Oral LD50 (rat) 550 mg/kg; Dermal LD50 (rabbit) 690 mg/kg
 (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) Oral LD50 (rat) 53 - 481 mg/kg

Skin Corrosion / Irritation: The product may be slightly irritating to the skin.
 (Water) No data.
 (Acrylic polymer) May cause slight skin irritation.
 (Titanium dioxide) Mechanically irritating to skin (human).
 (Diethylene glycol monobutyl ether) Slightly irritating to skin (rabbit).
 (Amorphous silica) No data.
 (Octyl-2H-isothiazol-3-one, 2-) No data.
 (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) Corrosive to skin.

Serious Eye Damage / Irritation: The product may be irritating to the eyes.
 (Water) No data.
 (Acrylic polymer) Non-irritating to eyes.
 (Titanium dioxide) No data.
 (Diethylene glycol monobutyl ether) Irritating to eyes (rabbit).
 (Amorphous silica) Mechanically irritating to eyes.
 (Octyl-2H-isothiazol-3-one, 2-) Irritating to eye with possible corneal damage (rabbit).
 (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) Corrosive to eyes.

Respiratory or Skin Sensitization: The product may be dermally sensitizing.
 (Water) No data.
 (Acrylic polymer) No data.
 (Titanium dioxide) No data.
 (Diethylene glycol monobutyl ether) No data.
 (Amorphous silica) No data.
 (Octyl-2H-isothiazol-3-one, 2-) Expected to possess sensitization potential to very low concentrations (0.05%).
 (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) Expected to possess sensitization potential to very low concentrations (0.0015%).

Mutagenicity: This product is not expected to be mutagenic.
 (Water) No data.
 (Acrylic polymer) No data.
 (Titanium dioxide) Not genotoxic in Ames and Syrian hamster embryo cell testing.
 (Diethylene glycol monobutyl ether) Not mutagenic (Ames). Did not increase

SECTION 11 TOXICOLOGICAL INFORMATION

	<p>unscheduled DNA synthesis. (Amorphous silica) No evidence of mutagenicity in rat alveolar cells (inhalation). (Octyl-2H-isothiazol-3-one, 2-) Not mutagenic (Ames test). (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) Not generally mutagenic in a variety of studies.</p>
Carcinogenicity:	<p>This product is not expected to be carcinogenic in its present state. (Water) No data. (Acrylic polymer) No data. (Titanium dioxide) Limited evidence for carcinogenicity in animals. There is inadequate evidence in humans. Studies related to inhalation of airborne particles. (Diethylene glycol monobutyl ether) No data. (Amorphous silica) There is inadequate evidence in experimental animals for the carcinogenicity of synthetic amorphous silica. (Octyl-2H-isothiazol-3-one, 2-) No data. (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) Not carcinogenic in rats (oral studies).</p>
Reproductive / Developmental Toxicity:	<p>This product is not expected to be reproductively or developmentally harmful. (Water) No data. (Acrylic polymer) No data. (Titanium dioxide) No data. (Diethylene glycol monobutyl ether) Does not affect fertility or embryonic development in rats. It was not embryotoxic or teratogenic to rabbits after dermal application. (Amorphous silica) No data. (Octyl-2H-isothiazol-3-one, 2-) No data. (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) Not found to be reproductively or developmentally harmful in animal studies.</p>
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Single Exposure:	<p>(Water) No data. (Acrylic polymer) No data. (Titanium dioxide) No data. (Diethylene glycol monobutyl ether) Orally exposed rats showed central nervous system effects. (Amorphous silica) No data. (Octyl-2H-isothiazol-3-one, 2-) No data. (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) No data.</p>
Chronic/Subchronic Toxicity: Specific Target Organ/Systemic Toxicity – Repeated Exposure:	<p>(Water) No data. (Acrylic polymer) No data. (Titanium dioxide) No data. (Diethylene glycol monobutyl ether) Rats exhibited kidney lesions in 35-day drinking study at 0.65 g/kg. (Amorphous silica) No data. (Octyl-2H-isothiazol-3-one, 2-) No data. (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) No data.</p>
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.

SECTION 12 ECOLOGICAL INFORMATION

Acute Ecotoxicity:	This product is not expected to be appreciably toxic to aquatic species. (Water) No data. (Acrylic polymer) No data. (Titanium dioxide) No data. (Diethylene glycol monobutyl ether) LC50 (Bluegill sunfish) 1300 mg/l/96 hr; LC50 (goldfish) 2700 mg/l/24 hr. (Amorphous silica) LC50 (mosquitofish) > 56,000 mg/l/24-96 hr. (Octyl-2H-isothiazol-3-one, 2-) LC50 (fathead minnow) 0.14 mg/l/96 hr; EC50 (Daphnia magna) 0.18 mg/l/48 hr. (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) LC50 (Bluegill sunfish) 0.28 mg/l/96 hr; LC50 (Rainbow trout) 0.19 mg/l/96 hr; EC50 (Daphnia magna) 0.16 mg/l/48 hr; EC50 (algae) 0.018 mg/l/72 hr.
Mobility:	(Water) No data. (Acrylic polymer) No data. (Titanium dioxide) No data. (Diethylene glycol monobutyl ether) Expected to have very high mobility based upon a Koc of 48. (Amorphous silica) No data. (Octyl-2H-isothiazol-3-one, 2-) No data. (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) No data.
Persistence/Degradability:	(Water) No data. (Acrylic polymer) Not biodegradable. (Titanium dioxide) Not biodegradable. (Diethylene glycol monobutyl ether) Biodegradation rates range from 2% in 5 day BOD to 100% in 6 days using a modified Zahns-Wellens test. (Amorphous silica) Inherently non-degradable. (Octyl-2H-isothiazol-3-one, 2-) Readily biodegradable. (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) Readily biodegradable (ca 98% in 48 days).
Bioaccumulation:	(Water) No data. (Acrylic polymer) No data. (Titanium dioxide) No data. (Diethylene glycol monobutyl ether) An estimated BCF of 3 suggests the potential for bioconcentration in aquatic organisms is low. (Amorphous silica) No data. (Octyl-2H-isothiazol-3-one, 2-) A BCF of 165 indicates the potential for bioaccumulation is low. (5-Chloro-2-methyl-4-isothiazoline-3-one and 2-methyl-4-isothiazoline-3-one) An estimated BCF of 3.0 - 3.2 suggests the potential for bioconcentration in aquatic organisms is low.
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

SECTION 13 DISPOSAL CONSIDERATION

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
 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: - Titanium dioxide - Diethylene glycol monobutyl ether (as glycol ethers)

SECTION 15 REGULATORY INFORMATION

	- Amorphous silica
New Jersey Right-To-Know:	This product contains materials subject to disclosure under the New Jersey Right-To-Know Law: - Titanium dioxide (1861) - Diethylene glycol monobutyl ether (as glycol ethers) (3138) - Amorphous silica (3510)
Pennsylvania Right-To-Know:	This product contains materials subject to disclosure under the Pennsylvania Right-To-Know Law: - Titanium dioxide - Diethylene glycol monobutyl ether (as glycol ethers) - Amorphous silica
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 (< 5.0%) (as airborne particles) - Acrylonitrile (trace) - Methanol (trace)
SARA TITLE III-Section 311/312 Categorization (40 CFR 370):	Immediate (acute) hazard
SARA TITLE III-Section 313 (40 CFR 372):	This product contains materials which are listed in Section 313 at or above de minimis concentrations: - Diethylene glycol monobutyl ether (as glycol ethers)
CERCLA Hazardous Substance (40 CFR 302)	This product contains materials subject to reporting under CERCLA and Section 304 of EPCRA: - Diethylene glycol monobutyl ether (as glycol ethers)
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:	2		
NFPA Rating - FIRE:	1		
NFPA Rating - REACTIVITY:	0		
NFPA Rating - SPECIAL:	NONE		
SDS Date Issued:	May 26, 2016		
SDS Current Version:	1.0	Version Date:	May 26, 2016
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		

SECTION 16 OTHER INFORMATION

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
 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

Disclaimer:

The data contained herein is based on information that the company believes to be reliable, but no expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product described and not to such products in combination with any other product and no agent of the company is authorized to vary any of such data. The company and its agents disclaim all liability for any action taken or foregone on reliance upon such data.

Prepared by:

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