

# Material Safety Data Sheet



ArcusStone

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## 1. Product and Company Information

Product Name: **Topcoat Plus Urethane Acrylic Sealer**

HMIS Classification: **Health: 2 Flammability: 1 Physical Hazard: 0**

Personal Protection: I (safety glasses, gloves, and vapor respirator)

Product Use: An aqueous blend of self cross linking modified urethane and acrylic co-polymers that is applied to ArcusStonefi coatings to provide a higher degree of topical water and stain protection.

ArcusStone Products, LLC Office 415.339.4060 Fax 415.339.4065  
180 Harbor Drive, Suite 200  
Sausalito, CA 94965 [www.arcusstone.com](http://www.arcusstone.com)

## 2. Composition / Information on Hazardous Ingredients

Ingredients	%	CAS#	ACGIH TLV (ppm)	OSHA PEL (ppm)	OSHA TLV (ppm)
Ethylene Glycol Monobutyl Ether	3.3	111-76-2	N/E	25	25
Diethylene Glycol Monobutyl Ether	3.3	112-34-5	N/E	N/E	N/E
Ethylene Glycol	2.1	107-21-1	N/E	50	100
1-Methyl-2-Pyrrolidone	3.3	872-50-4	N/E	100	100
Triethyl Amine	0.4	121-44-8	N/E	25	10

OSHA Hazardous Communication Standard 29 CFR 1910.1200 allows the MSDS information as to non-hazardous components to be unlisted if they are considered proprietary, therefore, identities of proprietary ingredients in this product are not listed here.

## 3. Hazards Identification

### Routes of exposure:

Skin contact : Yes

Skin Absorption: No

Eye Contact: Yes

Inhalation: Yes

Ingestion: Yes

### Emergency Overview:

Exposure to the product may result in temporary or transient breathing difficulty, nausea, headache, or mild sore throat.

### Potential Health Effects:

Health effects, if any, would be very minimal and transient. Any potential health effects would most likely be due to continuous breathing of vapors in poorly ventilated areas, or the product contacting eye or mucus membranes. Refer to the following section on first aid measures should any of these this occur.

## 4. First Aid Measures

Skin: Wash affected areas thoroughly with soap and water for at least 5 minutes. Consult Physician if irritation persists.

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Eyes: In the event of direct contact, rinse / flood eyes with clean water immediately and repeatedly for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion: Immediately consult a physician. Induce vomiting only as directed by medical personnel.

For Gross Inhalation: Immediately move subject to fresh air. Seek immediate medical attention.

## 5. Fire Fighting Measures

Flammable: Not flammable or combustible.

Means of Extinction: Use water, foam, dry chemical or carbon dioxide on dried film.

Flashpoint: non-flammable in liquid state.

Upper Flammable Limit (% by volume): N/E

Lower Flammable Limit (% by volume): N/E

Auto ignition Temperature: Will not auto ignite.

Explosion Data – Sensitivity to Impact: Will not explode.

Explosion Data – Sensitivity to Static Discharge: Possibility of pressure buildup in closed containers. Use water stream to cool before opening.

Hazardous Combustion Products: N/A

NFPA: Non-combustible classification.

## 6. Accidental Release Measures

### Leak and Spill Procedures:

Stop the leak and ventilate area. Construct a containment dike to limit the spread of material. Mix with a dry soil or other non-reactive absorbent such as ferric chloride or sulfate and lime to a clear end point and place in container. Flush contaminated area with water as soon as possible before material dries. Prevent runoff into storm sewer, streams or other bodies of water. Wear butyl rubber protective gloves, footwear, and clothing if cleaning up larger spills. For disposal, see Section 13, "Disposal Considerations".

Product is not considered a hazardous waste under EPA Hazardous Waste Regulation 40 CFR 261.

## 7. Handling and Storage

### Handling Procedures and Equipment:

Handle with adequate ventilation and avoid direct and prolonged breathing of vapors. Do not eat, drink, smoke, or otherwise allow wet material to contact mucus membranes or skin while handling. To avoid possible back strain or other injury, use a back brace, hand truck, pallet jack, or fork lift to move material containers.

### Storage Requirements:

Store unopened in manufacturer's original containers out of direct sunlight, extreme heat or cold, precipitation, and weather exposure. Do not store near open flame or other sources of ignition. Do not stack more than 2 pallets in height. Rotate stock. Product shelf life is one year from date of manufacture, in unopened containers. Store where temperature is between 40 ° and 100 ° F. (4.5 ° and 38 ° C). Do not freeze. Discard if product becomes frozen or laden with ice crystals.

### Exposure Limits:

ACGIH TLV: N/A

## 8. Exposure Control / Personal Protection

### Engineering Controls:

General - None required.

Local Exhaust - Ventilate if needed using mechanical means

### Personal Protective Equipment:

Eye - Chemical tight splash goggles (ANSI Z-87. 1, or approved equal) required.

Respiratory - Not normally required if good ventilation is maintained. Use of an appropriate OSHA MSHA or NIOSH approved respirator in poorly ventilated areas is required.

Hand - latex, vinyl, or rubber gloves are recommended but typically not required.

Other - Provide means of rinsing eyes (eyewash station) in case of emergency.

## 9. Physical and Chemical Properties

Physical State: Liquid  
Odor and Appearance: Milky white with slight monomer odor.  
Odor Threshold (ppm): no designation  
Specific Gravity (H<sub>2</sub>O =1): 1.1  
Vapor Density (air =1): >1  
Vapor Pressure (mmHg): no designation  
Evaporation Rate (Ether = 1): <1  
Boiling Point: 212 ° F. (100 ° C)  
Freezing Point: 32 ° F. (0 ° C)  
Melting Point: N/A  
pH (in water): not available  
Solubility in Water: Dilutable  
Molecular Weight: Mixture  
VOC: < 2.30 lbs./gal.  
Weight /Gal.: 8.70

## 10. Stability and Reactivity

### Chemical Stability:

Stable at ambient temperatures

### Incompatibility with other substances:

Product may coagulate if mixed with highly iodized or organic materials.

### Hazardous Decomposition Products:

Oxides of carbon and nitrogen.

### Reactivity:

Hazardous polymerization will not occur.

## 11. Toxicological Information

### Effects of Acute Exposure:

Can cause slight irritation to the eyes, skin, and upper respiratory system, headache, dizziness, and mild nausea.

### Effects of Chronic Exposure:

Vapors can cause inflammation of the lining tissue of the interior nose, throat, and upper respiratory system.

### Irritancy of Product:

Exposure can affect the skin, eyes and mucous membrane.

### Respiratory Sensitization:

Mild and temporary sore throat may occur with extended inhalation of vapors in poorly ventilated areas.

### Carcinogenicity:

No carcinogens in concentrations of 0.1% or greater under OSHA, NTP, IARC, ACGIH, and Calif. Prop. 65.

NTP – Not classified.

OSHA regulated – Not as a carcinogen.

IARC Monographs – No

Calif. Prop. 65 – No

## 12. Ecological Information

Aquatic Toxicity: Not available.

BOD<sub>5</sub> and COD: Not available.

Products of Biodegradation: Not available.

Toxicity of Products of Biodegradation: Not available.

## 13. Disposal Considerations

### Waste Disposal:

Product in liquid form can be disposed as common waste in small quantities < 100 gallons (378.5 L) to municipal or industrial wastewater treatment plants, with prior approval from these authorities and in accordance with local, state, provincial, and federal regulations. For > 100 gallons (378.5L), disposal through a licensed

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## 14. Transport Information

disposal facility is recommended. Product that is mixed with an amount of an appropriate absorbent material to produce a non-flowable state can be disposed of as common waste in accordance with Federal, Provincial, State, and Municipal regulations.

PIN - Not available  
TDG - Not available  
DOT - Classified as PAINT, Non-hazardous, not regulated. Keep from freezing.  
IMO - Not available  
ICAO - Not available  
IATA - Not regulated.

## 15. Regulatory Information

WHMIS Classification - Not available  
OSHA - not available.  
SARA - Product does not contain any toxic chemicals subject to reporting requirements of Section 313 of The Superfund Amendments and Reauthorization Act of 1986.  
TSCA - no components considered toxic under this reporting requirement.

## 16. Other Information

### Abbreviations:

ACGIH - American Conference of Governmental Hygienists  
ANSI - American National Standards Institute  
C - Celsius  
Cal/OSHA - Calif. Division of Occupational Health Administration  
CARB - California Air Resources Board  
CAS - Chemical Abstract Service  
CERCLA - Comprehensive Environmental Response and Liability Act (Superfund) of 1980  
CFR 49 - Title 49 of the Code of Federal Regulations  
DOT - Department of Transportation  
EPA - Environmental Protection Agency  
F - Fahrenheit  
HMS - Hazardous Materials Identification System  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
ICAO - International Civil Aviation Organization  
IMO - International Maritime Organization  
M<sup>3</sup> - Cubic Meter  
Mg - milligram  
MSDS - Material Safety Data Sheet  
N/A - Not Applicable  
N/E - Not Established  
NFPA - National Fire Protection Association  
NIOSH - National Institute of Occupational Safety and Health  
NTP - National Toxicity Program  
OSHA - Occupational Safety and Health Administration  
PEL - Permissible Exposure Limit  
RCRA - Resource Conservation and Recovery Act of 1976  
SARA - Superfund Amendments and Reauthorization Act of 1986  
SCAQMD - South Coast Air Quality Management District  
SiO<sub>2</sub> - Crystalline Silica (quartz)  
TGD - Transportation of Dangerous Goods Act of 1992 (Canadian)  
TLV - Threshold Limit Values  
TSCA - Toxic Substances Control Act of 1976  
TWA - Time Weighted Average

WHMIS - Workplace Hazardous Materials Information System

Statement:

While the information provided in this MSDS is believed to provide a useful summary of the hazards of this product as it is commonly used, the MSDS cannot anticipate and provide all of the information that might be needed in every situation. In particular, product users who have not had the benefit of proper training in the application of the product may be using it in a manner that this MSDS does not address or that may be hazardous. The information herein is given in good faith but no warranty, expressed or implied, is made.