



# SAFETY DATA SHEET

**PRODUCT NAME:** Avonite Surfaces Studio Collection  
**MSDS ISSUE DATE:** 12/01/04  
**SDS REVISION DATE:** 3/27/14

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**1.1 PRODUCT NAME:** Avonite Surfaces Studio Collection

**Synonyms:** Avonite, C1, G3, A3, K1, K3, M3

**Chemical Name:** Polyester

**1.2 PRODUCT USE:** Solid Surface

**1.3 MANUFACTURER:**

**Aristech Surfaces LLC  
7350 Empire Dr.  
Florence, KY 41042**

**1.4 CONTACT INFORMATION**

**Email:** info@aristechsurfaces.com

**Emergency Phone:** (859)- 283-1501 (8AM- 5PM Mon-Fri)  
**Fax:** (859)-283-7378  
CHEMTREC-(800)- 424-9300 (Off-Hour Emergencies); CCN 1676



## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 CLASSIFICATION OF SUBSTANCE:

**PRODUCT** Classification Information: Not Classified.

**INGREDIENT** Classification Information:

#### **Preliminary Statement:**

The product in its finished, marketed form is believed to be inert and *generally* innocuous. These classifications/hazards are pertaining to a compromised/disrupted product due to operations and processing such as sanding, sawing, grinding, burning etc.

Classification according to Regulation (EC) No 1272/2008[CLP]:

Eye Irritation - Category 2

Skin Irritation - Category 2

Skin Sensitization – Category 1

Specific Target Organ Toxicity Single Exposure - Category 3 (Respiratory)

### 2.2 LABEL ELEMENTS:

**WARNING!!!**



**IRRITANT**

**Signal Word:** WARNING!

**Relevant Routes of Exposure:** Inhalation, eye and skin.

## **CLP/GHS Statements:**

- **Hazard Statement(s):**

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

- **Precautionary statement(s):**

**Prevention:**

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.
- P337 + P313 IF eye irritation persists: Get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse.

**Storage:**


- P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**

- P501 Dispose of contents/container in accordance with local, state and federal requirements. This product as sold in its marketed form is not considered an EPA hazardous waste when discarded.

## SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

### 3.1 COMPOSITION:

<u>Ingredient Name</u>	<u>CAS #</u>	<u>EC #</u>	<u>% WT</u>	<u>DSD Classification</u>	<u>CLP/GHS Classification</u>
* Avonite Surfaces Foundations, Acrystone®	Mixture	Mixture	100	Not Classified	Not Classified
Alumina Trihydrate	21645-51-2	244-492-7	<60	Not Classified	Eye Irrit. 2 H319 Skin Irrit. 2 H315 STOT SE 3 H335  WARNING!
Cured Polyester Resin	Mixture	Mixture	42-93	Not Classified	Not Classified
Colorants	N/A	N/A	<2	Not Classified	Not Classified

\* Mixture. Chemicals that follow this listed chemical are part of the listed mixture.

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES:

**General notes:**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**Relevant Routes of Exposure:** Inhalation, eye and skin.

**Inhalation:**

For overexposure to heated resins, remove from exposure. If breathing is difficult, or has stopped, administer artificial respiration (mouth-to-mouth) or oxygen as indicated. Call a physician, immediately.

**Skin Contact:**

Wash affected area with soap and plenty of water. If irritation develops, call a physician.

**Eye Contact:**

Flush immediately with plenty of cool water for at least 15 minutes. Call a physician immediately.

**Ingestion:**

Product in its marketed form is inert. If large amounts are swallowed, call physician, immediately.

## SECTION 5: FIRE-FIGHTING MEASURES

### **5.1 EXTINGUISHING MEDIA:**

Use water or dry chemicals to extinguish fire.

### **5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANTS OR MIXTURE:**

Burning material may give off toxic products of combustion (CO, CO<sub>2</sub>) when involved in a hot fire.

### **5.3 ADVICE FOR FIRE FIGHTERS:**

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing when fighting fires. Use cold water spray to cool fire-exposed containers.

### **5.4 FURTHER INFORMATION:**

Combustion products may include carbon dioxide, carbon monoxide and acrid smoke and fumes.

**Flammable Limits in Air (% by Volume):** N/A

**Flash Point:** N/A

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

Proper personal protective equipment should be utilized when handling this material.

**6.2 ENVIRONMENTAL PRECAUTIONS:** N/A

### **6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:**

If released or spilled, product may be cleaned up and disposed in the trash. Allow hot or heated material to solidify and cool before disposal.

### **6.4 REFERENCE TO OTHER SECTION(S):**

See SECTION 7 for information on Safe handling.

See SECTION 8 for information on Personal Protective Equipment.

See SECTION 13 for information on Disposal.

## SECTION 7: HANDLING AND STORAGE

### **7.1 PRECAUTIONS FOR SAFE HANDLING:**

Avoid breathing of vapors, fumes and smoke which may be released during thermal processing. Since finished product has sharp edges, protective gloves should be worn when handling.

### **7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:**

Store in cool dry area.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 CONTROL PARAMETERS:**

Exposure Limit values:

<u>Ingredient Name</u>	<u>CAS #</u>	<u>%WT</u>	<u>Limit Values</u>
* Avonite Surfaces Foundations, Acrystone®	Mixture	100	This product can generate Particulates Not Otherwise Regulated (PNOR). The OSHA PEL-TWA for PNOR is 15 mg/m3 (total dust) and 5 mg/m3 (respirable fraction). The TLV-TWA for Particles Not Otherwise Specified (PNOS) is 10 mg/m3 (inhalable) and 3 mg/m3 (respirable fraction).
Alumina Trihydrate	21645-51-2	<60	Y(Hazardous)** PNOC - 15 mg/m3 (total dust) 5 mg/m3 (respirable fraction) (OSHA PEL TWA) PNOC - 10 mg/m3 (inhalable) 3 mg/m3 (respirable fraction) (ACGIH TLV TWA)
Cured Polyester Resin	Mixture	42-93	N (Hazardous) N/A – OSHA PEL TWA N/A – ACGIH TLV TWA
Colorants	N/A	<2	Y(Hazardous)** N/A – OSHA PEL TWA N/A – ACGIH TLV TWA

\* Mixture. Chemicals that follow this listed chemical are part of the listed mixture.  
 \*\* All ingredients in quantities >1.0% (>0.1% for carcinogens) that are potentially hazardous per OSHA definitions. Some States enforce the PELs that OSHA promulgated in 1989, which were subsequently vacated by the U.S. Supreme Court. Check with your state OSHA agency to determine which PEL is enforced in your jurisdiction.

**8.2 EXPOSURE CONTROLS:**

**Ventilation Requirements:**

Local exhaust ventilation should be used to control the emissions of air contaminants. General dilution ventilation may assist with the reduction of air contaminant concentrations.

**Eye/Face:**

Employees should be required to wear chemical safety goggles to prevent eye contact. A face shield should be used when appropriate to prevent contact with hot material.

**Skin:**

Since finished material has sharp edges, wear protective gloves when handling. Polyvinyl alcohol and Teflon® protective garments have been recommended for protection against methyl methacrylate. When necessary, garments for protection against heated materials should be used to prevent skin contact with hot acrylate polymer.

**Respiratory:**

No personal respiratory protective equipment normally required. Wear a NIOSH approved dust respirator that is properly fitted and is in good condition when exposed to dust levels above the ACGIH permissible exposure limits (10mg/m3 based on an eight hour Time Weighted Average).

**Other Protective Clothing/Equipment:**

Emergency eye wash stations and safety showers should be available in the work area.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance:** Solid sheet, various colors  
**Boiling Point:** 290°F  
**Molecular/Chemical Formula:** Mixture  
**Evaporation Rate:** N/A  
**Bulk Density:** N/A  
**Freezing Point:** N/A  
**Melting Point:** N/A  
**Octanol/Water Partition Coefficient:** N/A  
**Water/Oil Distribution Coefficient:** N/A  
**Odor:** Odorless  
**Odor Threshold:** N/A  
**Percent Volatile:** <1%

**pH Value:** N/A  
**Physical State:** Solid sheet  
**Reactivity in Water:** N/A  
**Solubility in Water:** N/A  
**Specific Gravity or Density (Water=1):** 1.13-1.28  
**Vapor Density:** N/A  
**Vapor Pressure:** N/A  
**Flammable Limits in Air (% by Volume):** N/A  
**Flash Point:** N/A

## SECTION 10: STABILITY AND REACTIVITY

**10.1 REACTIVITY:** Unreactive.

**10.2 CHEMICAL STABILITY:** Stable.

**10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** None known.

### 10.4 CONDITIONS TO AVOID:

Temperatures above 290 Deg. F (143 Deg. C) can release styrene.

**10.5 INCOMPATIBLE MATERIALS:** None known.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon dioxide, carbon monoxide, acrid smoke and fumes, possibly styrene.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

#### Product Based Information:

No toxicological information is available for the finished product. This product is generally believed to be inert based on available data.

#### Ingredient Based Information:

Alumina trihydrate may cause eye and skin irritation.

Rabbits given polyester resin in the eye developed moderate corneal injury, iritis and conjunctival injury with corneal vascularization. However, all eyes healed by day 21. (USS Toxicity Test Report No. 47-503).

**Possible target organs:** Skin and respiratory system (e.g., lungs).

**Relevant Routes of Exposure:** Inhalation, eye and skin.

**Signs and Symptoms of Acute Overexposure:**

Product sold in its marketed form is not expected to present a serious health hazard; however, operations such as sawing, sanding, grinding or burning may generate dust, smoke or vapors which may be irritating. Inhalation of such dusts, smoke and vapors may cause upper respiratory tract irritation. Symptoms may include burning sensation, coughing, sneezing, and sore throat. Skin contact with dust may produce transitory mechanical irritation. Symptoms may include redness and itching. High concentrations of dusts may cause irritation to the eyes causing burning, redness, and tearing. This product is not expected to be toxic if ingested.

**Signs and Symptoms of Chronic Overexposure:**

Prolonged or repeated over exposures to high concentrations may cause coughing, dizziness, confusion, headache and drowsiness. Prolonged or repeated skin contact may lead to allergic skin reactions.

**Medical Conditions Generally Aggravated By Exposure:**

Individuals with chronic respiratory disorders may be adversely affected by any fume or airborne particulate matter exposure. Persons with preexisting skin disorders may be more susceptible to the effects of this material.

**Carcinogenicity:**

**NTP:** N\*

**IARC:** Y\*

**OSHA:** N/A

**ACGIH:** N/A

**OTHER:** N/A

**Additional Information:**

\*Titanium Dioxide is listed as possibly carcinogenic to humans (Group 2B). In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have been shown to cause lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. However, other laboratory animals such as mice and hamsters did not develop lung tumors under similar testing with titanium dioxide. Furthermore, human epidemiology studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer. Under normal conditions of use and exposure, toxicological and epidemiological studies for titanium dioxide have shown no significant adverse health effects. Results of an epidemiology study showed that employees who had been exposed to titanium dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to titanium dioxide. No associations were observed between titanium dioxide exposure and chronic respiratory disease or lung abnormalities. Based on the results of this study, it was concluded that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the work place.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 ECOLOGICAL INFORMATION:**

No ecological data is currently available.



## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 DISPOSAL:

Dispose of in accordance with local, state and federal requirements. This product as sold in its marketed form is not considered an EPA hazardous waste when discarded. Allow hot or heated material to solidify and cool before disposal.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 TRANSPORT:

**Proper Shipping Name:** Not regulated as a hazardous material.

**Hazard Class:** None

**ID Number:** None

**Packing Group:** None

**Marine Pollutant:** No

## SECTION 15: REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE EU REGULATION:

#### **U.S. Federal Regulations:**

Toxic Substances Control Act (TSCA) Inventory- Yes

Superfund Amendments and Reauthorization Act (SARA 313)- N/A

#### **State Regulations:**

California Proposition 65 List.

This product does not contain any chemicals listed by the State of California to cause cancer and/or birth defects or other reproductive harm.

#### **International Regulations:**

European Inventory (EINECS)- Unknown

Canadian Inventory (DSL)- Yes

#### **SARA Hazards:**

**Acute:** Yes

**Chronic:** No

**Reactive:** No

**Fire:** No

**Pressure:** No

## SECTION 16: OTHER INFORMATION

### 16.1 ABBREVIATIONS AND ACRONYMS:

CLP= Classification, Labelling and Packaging

CAS= Chemical Abstract Service

DSD= Dangerous Substance Directive

N/A= Not Applicable

MSHA= Mine Safety and Health Administration

NIOSH= National Institute of Occupational Safety and Health

CEIL= Ceiling Limit Value

STEL= Short Term Exposure Limit

CNS= Central Nervous System

SARA= Superfund Amendment and Reauthorization Act

ACGIH= American Conference of Governmental Industrial Hygienists

OSHA= Occupational Safety and Health Administration

PNOC= Particulates Not Otherwise Classifiable

TLV= Threshold Limit Value

PEL= Permissible Exposure Limit

TWA= Time Weighted Average

### 16.2 KEY LITERATURE REFERENCE AND SOURCES FOR DATA:

Provided by company.

### 16.3 APPLICABLE STATEMENTS:

#### DSD Statements:

- **Risk(R) Statement(s):**

- N/A

- **Safety(S) Statement(s):**

- N/A

#### Additional Statements:

##### Emergency Overview:

- CAUTION! Inhalation of dusts or vapors may cause upper respiratory tract irritation with coughing and a burning sensation in the throat. Repeated skin exposures to dusts may cause dermatitis.

##### Potential Health Effects:

- Eyes: Transient/mechanical irritation from contact with dusts. Possible irritation from operations and processing vapors or dusts.
- Skin: Possible transient/mechanical irritation.
- Ingestion: Product in marketed form is inert.
- Inhalation: Sawing, sanding, grinding, or burning may cause upper respiratory tract irritation

Label Statements:

- CAUTION! Inhalation of dusts or vapors may cause upper respiratory tract irritation with coughing and a burning sensation in the throat. Repeated skin exposures to dusts may cause dermatitis.
- Avoid contact with eyes, skin and clothing
- Avoid breathing dust or vapors.
- Wash thoroughly after handling.
- Launder contaminated clothing before re-use.
- Use only with adequate ventilation.
- If repeated skin contact may occur, wear PVA gloves.
- Wear chemical safety goggles.
- If Exposure Limits may be exceeded, wear NIOSH approved dust respirator.

**16.4 TRAINING ADVICE:**

Provide adequate information, instruction and training to operators.

**16.5 DECLARE TO READER:**

If you require additional information regarding any legal or regulatory requirements referred to in this SDS, we suggest that you consult with an appropriate regulatory agency, or with a professional with expertise in this area. This information is taken from sources or based upon data believed to be reliable; however, Aristech Acrylics LLC makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.

**16.6 ADDITIONAL INFORMATION:**

**NFPA Codes:**

Health: 2

Flammability: 0

Reactivity: 0

**HMIS Codes:**

Health: 1

Flammability: 0

Reactivity: 0

Prepared according to: **Appendix D of 29 CFR 1910.1200  
Regulation (EC) No 1272/2008[CLP]**

**SDS REVISION DATE:** 3/26/14