AVONITE FLEX

SAFETY DATA SHEET

SDS NUMBER: **M033121**
PRODUCT NAME: AVONITE® Flex
SDS ISSUE DATE: 03/09/2021
SDS REVISION DATE: 03/09/2021

SECTION 1: Product and Company Identification

1.1 PRODUCT NAME: AVONITE® Flex
Synonyms: Polymethylmethacrylate; Acrylic; Mineral Filled Acrylic
Chemical Name: Polymethylmethacrylate

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
- H317 May cause an allergic skin reaction
- 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 skin 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.
- P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.
- P337 + P313 IF eye irritation persists: Get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse.
- P370 + P378 In case of fire: Use water or dry chemicals for extinction.

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. Allow hot or heated material to solidify and cool before disposal.
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SECTION 3: Composition/Information on Ingredients

Ingredient Name	CAS #	EC #	% WT	DSD Classification	CLP/GHS Classification
* AVONITE® Flex	Mixture	Mixture	100	Not Classified	Not Classified

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, CO2) 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, methyl methacrylate monomer (MMA) 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:

This product as sold in its marketed form is not considered an EPA hazardous waste.

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:

Ingredient Name	CAS #	%WT	Limit Values
AVONITE® Flex	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).

**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	pH Value: N/A
Boiling Point: N/A	Physical State: Solid sheet
Molecular/Chemical Formula:	Reactivity in Water: N/A
Mineral filled acrylic	Solubility in Water: N/A
Evaporation Rate: N/A	Specific Gravity or
Bulk Density: N/A	Density (Water=1): N/A
Freezing Point: N/A	Vapor Density: N/A
Melting Point: N/A	Vapor Pressure: N/A
Octanol/Water Partition Coefficient: N/A	Flammable Limits in
Water/Oil Distribution Coefficient: N/A	Air (% by Volume): N/A
Odor: Odorless	Flash Point: N/A
Odor Threshold: N/A	
Percent Volatile: 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 500 Deg. F (260 Deg. C) can release methyl methacrylate.
10.5 INCOMPATIBILE MATERIALS: None known.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, acrid smoke and fumes, possibly MMA.

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.

Carcinogenicity:

- NTP: N*
- IARC: N*
- OSHA: N/A
- ACGIH: N/A
- OTHER: N/A

Additional Information:
*This product may contain certain inorganic pigments that may include compounds of nickel. Certain molecules of nickel have shown sufficient evidence of carcinogenicity (IARC Vol. 49) while others have shown limited or insufficient evidence of carcinogenicity in humans or animals. Titanium Dioxide: 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 workplace.

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.

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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)- Nickel Compounds

State Regulations:
California Proposition 65 List- Yes* (Nickel)
⚠**WARNING:** This product may contain nickel compounds which are known to the state of California to cause cancer. The Proposition 65 chemical(s) found in this product appear in trace amounts and would not be expected to pose significant risk; however, a risk assessment for these chemicals has not yet been performed. Each product should be assessed in light of its use.

International Regulations:
European Inventory (EINECS)- Unknown
Canadian Inventory (DSL)- Yes

SARA Hazards:

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

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SECTION 16: Other Information

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):

- R36/37/38 Irritating to eyes, respiratory system and skin

Safety(S) Statement(s):

- S24 Avoid contact with skin
- S37 Wear suitable gloves
- S46 If swallowed, seek medical advice immediately and show this container or label

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 allergic skin reactions.

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 allergic skin reactions.
- 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 Surfaces 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:	**HMIS Codes:**
Health: 2	Health: 1
Flammability: 0	Flammability: 0
Reactivity: 0	Reactivity: 0

Prepared according to:

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- Appendix D of 29 CFR 1910.1200
- Regulation (EC) No 1272/2008[CLP]