

SAFETY DATA SHEET

PRODUCT NAME: Avonite Ultra-Bond G Part B

MSDS ISSUE DATE: 3/11/09

SDS REVISION DATE: 3/28/14

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 PRODUCT NAME:

AVONITE SURFACES ULTRA-BOND G

- Synonyms: Solid Surface Adhesive Activator (Part B – in the smaller tube)
- Chemical Name: Mixture

1.2 PRODUCT USE:

SOLID SURFACE ADHESIVE ACTIVATOR

1.3 MANUFACTURER:

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

1.4 CONTACT INFORMATION :

- Email: info@aristechs-surfaces.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:

These classifications/hazards are pertaining to the constituents of the marketed product.

CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008[CLP]:

- Acute Toxicity - Category 4
- Eye Irritation - Category 2
- Hazardous to the Aquatic Environment (Acute) - Category 1
- Hazardous to the Aquatic Environment (Chronic) - Category 1
- Organic Peroxide – Category B
- Reproductive Toxicity - Category 1B
- Skin Sensitization - Category 1

2.2 LABEL ELEMENTS:

SIGNAL WORD: DANGER !

DANGER!!!



IRRITANT - HAZARDOUS - TOXIC - FLAMMABLE – EXPLOSIVE

Relevant Routes of Exposure: Inhalation, eye and skin.

CLP/GHS STATEMENTS:

HAZARD STATEMENT(S):

- H241 Heating may cause a fire or explosion
- H302 Harmful if swallowed
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H360FD May damage fertility or the unborn child
- H410 Very toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENT(S):

PREVENTION:



- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P220 Store in cool, dry area away from heat, oxidizers and combustible materials. Close containers when not in use.
- P234 Keep only in original container.
- P261 Avoid breathing dust ,fume ,gas, mist, vapors, spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P281 Use personal protective equipment as required.

RESPONSE:

- P301+P312 P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- 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
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Water spray, dry chemicals, carbon dioxide or foam may be used to extinguish fire.
- P370 + P380 + P375 in case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
- P391 Collect spillage. Hazardous to the aquatic environment.

STORAGE:

- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P411 Avoid prolonged storage above 100°F. Storage above 109°F may cause explosive decomposition.
- P420 Store away from other materials.




DISPOSAL:

- P501 Dispose of in accordance with local, state and federal requirements. This material meets the definition of hazardous waste and mixtures may meet the criteria of reactivity D003.



SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 COMPOSITION:

INGREDIENT NAME	CAS #	EC #	% WT	DSD CLASSIFICATION	CLP/GHS CLASSIFICATION
Avonite Surfaces Ultra-Bond G (Part B)	N/A	N/A	100	Not Classified	Not Classified
Benzoyl Peroxide	94-36-0	202-327-6	5-10	E; Xi; O; R3; R7; R36 R43; S02 S3/7; S14 S36/37/39	Org. Perox. B H241 Skin Sens. 1 H317 Eye Irrit. 2 H319  DANGER!
Diisobutyl phthalate	84-74-2	201-557-4	30-60	T; N Repr. Cat. 2; Repr. Cat. 3; R62; R50; R61 S53; S45; S61	Repr. 1B H360Df Aquatic Acute 1 H400  DANGER!
Non hazardous ingredients	N/A	N/A	10-30	Not Classified	Not Classified
Texanol Benzyl Phthalate	16883-83-3	240-920-1	30-60	Not Classified	Acute Tox. 4 H302 Aquatic Chronic 1 H410  WARNING!

* 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:

Remove contaminated clothing. Wash skin thoroughly with soap and plenty of water. If irritation or sensitization occurs, call a physician.

EYE CONTACT:

Flush immediately with large amount of water for at least 15 minutes. Call a physician or poison control center, immediately.

INGESTION:

DO NOT INDUCE VOMITING! Rinse mouth immediately with plenty of water. If victim is conscious and alert, give 1 glass of milk or water. **NEVER GIVE ANYTHING BY MOUTH TO AN**



UNCONSCIOUS PERSON. Call a physician or poison control center, immediately.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

- Water spray, dry chemicals, carbon dioxide or foam may be used to extinguish fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCES OR MIXTURE:

- Organic peroxides can decompose violently if heated strongly while confined. Sudden reaction and fire may result if product is mixed with an oxidizing agent. Water or foam may cause frothing.

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, organic acids and acrid smoke and fumes.
- Flammable Limits in Air (% by Volume): N/A
- Flash Point: >200°F (93°C) (COC)

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:

- Hazardous to the aquatic environment. Avoid release to the environment.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

- If product is spilled, cover with sand or earth and shovel material into labeled drums for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Ventilate area. Avoid runoff to storm sewers, ditches and waterways.

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 eye and skin contact. Wash hands and face before eating and smoking. Use with adequate ventilation. Avoid breathing vapor, aerosol or mist.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

- Store in cool, dry area away from heat, oxidizers and combustible materials. Close containers when not in use. Do not store in temperatures above 100°F. Storage above 109°F may cause explosive decomposition.





SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS: EXPOSURE LIMIT VALUES:

INGREDIENT NAME	CAS #	% WT	LIMIT VALUES
*Avonite Surfaces Ultra-Bond G (Part B)	N/A	100	Not Classified
Benzoyl Peroxide	94-36-0	5-10	Y (Hazardous)** 5 mg/m ³ - (OSHA PEL TWA) 5 mg/m ³ - (ACGIH TLV TWA)
Diisobutyl phthalate	84-74-2	30-60	Y (Hazardous)** N/A – OSHA PEL TWA N/A – ACGIH TLV TWA
Non hazardous ingredients	N/A	10 - 30	N (Non-hazardous)** N/A – OSHA PEL TWA N/A – ACGIH TLV TWA
Texanol Benzyl Phthalate	16883-83-3	30-60	Y (Hazardous)** 5 mg/m ³ Manufacturer

* 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.

SKIN:

Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer for permeability data.

EYE/FACE:

Wear chemical safety glasses, goggles or face shields to prevent eye contact.

RESPIRATORY:

Respiratory equipment approved by NIOSH for protection against organic vapors and dusts is necessary to avoid inhalation of excessive air contaminants. The appropriate respirator

selection depends on the type and magnitude of exposure (refer to 29 CFR 1910.134 for appropriate NIOSH approved respirators and to the NIOSH Pocket Guide to Chemical Hazards, DHHS (NIOSH) Publication NO. 2001-145 for equipment selection).

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:	Oily colorless liquid
Boiling Point:	>550°F (287 °C)
Molecular/Chemical Formula:	Mixture



Evaporation Rate:	Not Determined
Bulk Density:	N/A
Freezing Point:	Not Determined
Melting Point:	Not Determined
Octanol/Water Partition Coefficient:	N/A
Water/Oil Distribution Coefficient:	N/A
Odor:	Mild Ester
Odor Threshold:	N/A
Percent Volatile:	Not Determined
pH Value:	N/A
Physical State:	Liquid
Reactivity in Water:	N/A
Solubility in Water:	Not Determined
Specific Gravity or Density (Water=1):	Not Determined
Vapor Density:	Not Determined
Vapor Pressure:	Not Determined
Flammable Limits in Air (% by Volume):	N/A
Flash Point:	>200°F (93°C) (COC)

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY: REACTIVE.

10.2 CHEMICAL STABILITY: UNSTABLE.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization will not occur.

10.4 CONDITIONS TO AVOID:

Exposures to heat and contamination. Avoid prolonged storage above 100°F.

10.5 INCOMPATIBLE MATERIALS:

Contact with strong oxidizers, strong alkalies and strong acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon dioxide, carbon monoxide, acrid smoke and fumes, and organic acids.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

VALUE	ANIMAL	ROUTES	COMPONENTS
10 gm/kg	Guinea Pig	Dermal - LD50	Diisobutyl Phthalate
15 gm/kg	Rat	Oral - LD50	Diisobutyl Phthalate
6400 mg/kg	Rabbit	Oral - LD50	Benzoyl Peroxide
1200 mg/kg	Mouse	Oral - LD50	Benzoyl Peroxide



PRODUCT BASED INFORMATION:

No toxicological information is available for the finished product.

INGREDIENT BASED INFORMATION:

Benzoyl Peroxide

- Eye – Rabbit Standard Draize Test: 500 mg/24H – [mild] (RTECS)
- Skin – Human Standard Draize Test: 5%/8W-I – [severe] (RTECS)
- Skin – Mammal species unspecified LD50: >1 gm/kg – [Details of toxic effects not reported other than lethal dose value] (RTECS).

POSSIBLE TARGET ORGANS:

Skin and respiratory system (e.g., lungs), and eyes.

RELEVANT ROUTES OF EXPOSURE:

Inhalation, eye and skin.

SIGNS AND SYMPTOMS OF ACUTE OVEREXPOSURE:

Inhalation of the product is not expected to cause irritation. However, if product is heated, misted or sprayed, irritation of the eyes, nose, throat and upper respiratory tract may occur. Symptoms may include watery eyes, runny nose, burning sensation and coughing. Skin contact may cause irritation and possibly dermatitis. Symptoms can include burning, itching, swelling, dryness, redness and flaky skin. Eye contact may produce severe irritation with intense pain, possible corneal damage, redness, swelling of eye tissue, conjunctivitis, and profuse lacrimation (tearing). Ingestion may cause nausea, vomiting, diarrhea and dizziness. Initial symptoms may be delayed. Additional symptoms may include headache, pain and irritation to the eyes, tearing, conjunctivitis and photophobia.

SIGNS AND SYMPTOMS OF CHRONIC OVEREXPOSURE:

Prolonged or repeated skin contact may lead to allergic skin reactions. Symptoms may include irritation, redness, itching, dryness and rash.

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

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 MATERIAL MEETS THE DEFINITION OF HAZARDOUS WASTE AND MIXTURES MAY MEET THE CRITERIA OF REACTIVITY D003 SECTION

14: TRANSPORT INFORMATION

14.1 TRANSPORT:

- Proper Shipping Name: Not Regulated
- Hazard Class: N/A
- ID Number: N/A
- Packing Group: N/A
- Marine Pollutant: Yes



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)- Benzoyl Peroxide

STATE REGULATIONS:

- Pennsylvania Hazardous Substance List- Benzoyl Peroxide(E)
- New Jersey Hazardous Substance List- Benzoyl Peroxide (S, F4, R4)
- Massachusetts Substance List- Benzoyl Peroxide
- 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)- Yes
- Canadian Inventory (DSL)- Yes

SARA HAZARDS:

- Acute: Yes
- Chronic: No
- Reactive: Yes
- 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):

- R03 Extreme risk of explosion by shock, friction, fire or other sources of ignition
- R07 May cause fire
- R36 Irritating to the eyes
- R43 May cause sensitization by skin contact
- R50 Very toxic to aquatic organisms
- R61 May cause harm to the unborn child
- R62 Possible risk of impaired fertility

SAFETY(S) STATEMENT(S):

- S02 Keep out of the reach of children
- S14 Keep away from strong oxidizers, strong alkalis and strong acids
- S3/7 Keep container tightly closed in a cool place
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
- S53 Avoid exposure - obtain special instruction before use
- S61 Avoid release to the environment. Refer to special instructions safety data sheet

ADDITIONAL STATEMENTS:



EMERGENCY OVERVIEW:

- **WARNING!** May cause severe eye irritation. May cause skin irritation and dermatitis. Prolonged and repeated contact may produce skin sensitization. Possible reproductive hazard based on animal studies.

POTENTIAL HEALTH EFFECTS:

- **Eyes:** May cause severe eye irritation with possible corneal damage.
- **Skin:** May cause irritation and possibly dermatitis. Repeated or prolonged contact may result in sensitization.
- **Ingestion:** If swallowed, product may produce nausea, vomiting, diarrhea, and dizziness. Symptoms may be delayed.
- **Inhalation:** Heating, misting, or spraying of product may produce irritation to the eyes, nose, throat and upper respiratory tract.

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: 1
- Reactivity: 3

HMIS CODES:

- Health: 2
- Flammability: 2
- Reactivity: 3

Prepared according to:

Appendix D of 29 CFR 1910.1200

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

SDS REVISION DATE: 3/31/14