

Material Safety Data Sheet

MSDS Number: 8411A

Issue Date: 3/11/09

Product Name: Avonite Surfaces Ultra-Bond G

Revised Date: 3/11/09

Aristech Acrylics LLC
7350 Empire Drive
Florence, KY 41042

Emergency:
(859) 283-1501 (8 a.m.– 5 p.m. Mon-Fri)
(800) 424-9300 (Off-Hour Emergencies)

Section 1 – Product Identification

Product Name: Avonite Surfaces Ultra-Bond G

Synonyms: Solid Surface Adhesive (Part A – in the bigger tube)

Chemical Name: Mixture

Section 2 – Composition/Information on Ingredients

Ingredient Name	CAS No.	% WT	Exposure Limits
Ultra-Bond G*	Mixture	100	
Methyl methacrylate	80-62-6	30 - 60	Y (Hazardous)** 100 ppm (OSHA PEL TWA) 50 ppm (ACGIH TLV TWA) 100 ppm (ACGIH STEL CEILING)
Trimethylolpropane, trimethacrylate esters	3290-92-4	1 - 5	Y (Hazardous)** N/A – OSHA PEL TWA N/A – ACGIH TLV TWA
Paraffin wax	64742-43-4	1 - 5	N (Hazardous) N/A – OSHA PEL TWA N/A – ACGIH TLV TWA
Fillers and miscellaneous non-hazardous ingredients	N/A	<40	N (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.

Section 3 – Hazard Identification

Emergency Overview:

WARNING! FLAMMABLE LIQUID AND VAPOR. This product may undergo hazardous polymerization. Vapor may cause flash fire. Expected to cause eye, skin and upper respiratory tract irritation. Exposure to high concentrations of mists or vapors may cause central nervous system depression with headache,

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drowsiness, nausea, weakness, fatigue, and loss of appetite. May cause dermatitis and allergic skin reactions. Possible aspiration hazard.

Potential Health Effects:

Eyes: May cause eye irritation with possible corneal damage.

Skin: May cause irritation and possibly dermatitis. Repeated or prolonged contact may result in sensitization

Ingestion: Ingestion can result in gastrointestinal disturbances (vomiting, nausea, diarrhea, abdominal pain and lack of appetite). Possible aspiration hazard. This product, if vomited, may be aspirated into the lungs causing chemical pneumonia which may be life threatening.

Inhalation: Heating, misting, or spraying of product may produce irritation to the eyes, nose, throat and upper respiratory tract, including respiratory sensitization with asthma-like symptoms in susceptible individuals. Overexposure may cause dizziness, headache or anesthetic effect.

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

Signs and Symptoms of Acute Overexposure:

Inhalation of high vapor concentration may irritate the eyes and mucous membranes of the nose, throat and upper respiratory tract. Symptoms may include burning sensation, coughing, sore throat, shortness of breath and dizziness. Severe overexposures can cause confusion, headache, nausea, anorexia, irritability, narcosis, drowsiness, unconsciousness, collapse, coma and possibly death. Repeated or prolonged skin contact with liquid may cause irritation, dermatitis and allergic reactions. Symptoms may include redness, itching, dry, scaly and fissured dermatitis, rash and blisters. Eye contact may result in irritation and possible corneal damage. Symptoms may include redness, tearing, burning sensation, swelling of the eye tissue and pain. If swallowed, may cause gastrointestinal disturbances. Symptoms may include nausea, vomiting, sore throat, abdominal pain and lack of appetite. Aspiration of methyl methacrylate into the lungs may cause chemical pneumonia which may be life threatening.

Signs and Symptoms of Chronic Overexposure:

Repeated and prolonged contact with the skin can cause dermatitis and allergic skin reactions. Repeated eye contact may result in conjunctivitis. Chronic inhalation may result in neurologic and behavioral changes according to results with animal studies.

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

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OTHER: N/A

Additional Information If Applicable

Section 4 – First Aid Measures

Eyes:

Flush immediately with large amount of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with the fingers. Call a physician or poison control center, immediately.

Skin:

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

Ingestion:

DO NOT INDUCE VOMITING! Rinse mouth immediately with plenty of water. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician or poison control center, immediately.

Inhalation:

Remove from exposure. If breathing is difficult, administer artificial respiration (mouth-to-mouth) or oxygen as indicated. Call a physician immediately

Notes to Physicians: None known.

Section 5 – Fire Fighting

Flammable Limits in Air (% by Volume): LEL: 1.7
UEL: 12.5

Flash Point: 50°F (10°C) (TCC)

Extinguishing Media:

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

Fire Fighting Instructions:

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 to minimize risk of rupture. Evacuate area of unprotected personnel.

Unusual Fire and Explosion Hazards:

Water or foam may cause frothing. Vapors are heavier than air and may travel to a source of ignition and cause a flash back. Sealed containers may explode upon exposure to excessive heat and fire situations.

Known or Anticipated Hazardous Products of Combustion:

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

Section 6 – Accidental Release Measures

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Accidental Release Measures and Methods for Cleanup:

Dike with sand or earth to prevent spill from entering sewers and waterways. Remove all ignition sources. Keep up wind of spill containment area. Ventilate spill area. All equipment used when handling this product must be grounded. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Personal protective equipment should be used when cleaning up all spills. Methyl methacrylate is on the CERCLA list of hazardous substances and spills of reportable quantities must be reported to the National Response Center (800-424-8802). The CERCLA Reportable Quantity (RQ) for MMA is 1,000 lb.

Section 7 – Handling and Storage

Handling:

Product is flammable. Keep away from heat, sparks and flames. Keep containers closed when not in use. Use with adequate ventilation. Avoid contact with eyes and skin. Avoid breathing mists or vapors. Use proper grounding procedures.

Storage:

Store in cool, dry area away from heat, oxidizers and combustible materials. Close containers when not in use.

Section 8 – Exposure Controls/Personal Protection

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.

Personal Protective Equipment:

Eye/Face:

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

Skin:

Wear polyvinyl alcohol and Teflon gloves to prevent skin contact. Protective aprons may be necessary where employees may be splashed. Contaminated clothing should be removed and laundered before reuse.

Respiratory:

Respiratory equipment approved by NIOSH/MSHA for protection against organic vapors and mists is necessary to avoid inhalation of excessive air contaminants. The appropriate respirator selection depends on the type and magnitude of exposure (refer 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). Use a positive pressure air supplied respirator if there is a potential for an uncontrolled release, exposure levels are not known or under any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective Clothing/Equipment:

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

Section 9 – Physical/Chemical Properties

Appearance: Off white paste

Boiling Point: 213 °F (100.5 °C)

Molecular/Chemical Formula: Mixture

Evaporation Rate: 3

Bulk Density: N/A

Freezing Point: N/A

Melting Point: -54 °F (-47.7 °C)

Octanol/Water Partition Coefficient: N/A

Water/Oil Distribution Coefficient: N/A

Odor: Sweet, acid fruity acrylic odor

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): 0.93 - 1.05

Vapor Density: 3.5 (Air=1)

Vapor Pressure: 28 mmHg 68°F

Section 10 – Stability/Reactivity

Stability:

Unstable

Conditions to Avoid:

Exposures to heat and contamination.

Incompatibility With Other Materials:

Contact with strong oxidizers, strong alkalies reducing agents, azo compounds, catalytic metals, halogens and strong acids.

Hazardous Decomposition Products:

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

Hazardous Polymerization:

May occur under certain conditions.

Conditions to Avoid:

Extreme heat, sparks, open flame, incompatible materials, oxidizers and oxidizing conditions. Also avoid oxygen free atmospheres or inert gas blanketing and freezing conditions. This product can soften paint and rubber.

Section 11 – Toxicological Information

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VALUE	ANIMAL	ROUTES	COMPONENTS
7094 ppm/4hr	Rat	Inhalation- LC ₅₀	Methyl methacrylate
7872 mg/kg	Rat	Oral - LD ₅₀	Methyl methacrylate
16 ml/kg	Rabbit	Skin- LD ₅₀	Trimethylolpropane trimethacrylic esters
5660 ul/kg	Rat	Oral - LD ₅₀	Trimethylolpropane trimethacrylic esters

**Toxicological Information:
Product Based Information:**

No toxicological information is available for the finished product.

Ingredient Based Information:

In one study, high doses of MMA were reported to produce an increased incidence of blood vessel aggregates in rat pups whose mothers received MMA by injection while pregnant.

Degenerative changes in the liver were observed in Guinea pigs following inhalation exposure to 9.5 ppm of MMA for 3 hours/day for 15 days, according to a 1945 report.

Ingestion of MMA caused irritation of the alimentary canal and kidney and liver lesions (Lefaus, R. Practical Toxicology of Plastics. CRC Press, Inc., 1968P.324).

Methyl methacrylate has been shown to cause neurotoxic effects in primarily animal studies.

Carcinogenicity: None of the ingredients listed in Section 2 are considered carcinogens by OSHA, NTP, or IARC.

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

Additional Information If Applicable

Section 12 – Ecological Information

Ecological Information:

No ecological data are currently available.

Additional Information If Applicable

Section 13 – Disposal Considerations

Disposal Considerations:

Dispose of in accordance with local, state and federal requirements. Methyl methacrylate (MMA) is specifically listed as a RCRA U162 hazardous waste and mixtures may meet the criteria of ignitability

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Additional Information If Applicable

Important Disposal Information:

Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container.

Section 14 – Transport Information

Proper Shipping Name: Adhesives

Hazard Class: 3

ID Number: 3

Packing Group: II

DOT Exemption: ORM-D Small quantity exemption

Additional Information If Applicable

See section 6 for Reportable Quantity (RQ) information.

Section 15 – Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA) Inventory- Yes
Superfund Amendments and Reauthorization Act (SARA 313)-MMA
Clean Air Act (Section 111) Volatile Organic Compound- MMA
Clean Air Act (Section 112) Statutory Air Pollutants- MMA
Clean Water Act (Section 311) Hazardous Substances- MMA
Clean Water Act (Section 307) Priority Pollutant- N/A

State Regulations:

Pennsylvania Hazardous Substance List- MMA (E)
New Jersey Hazardous Substance List- MMA (F3, R2, 1277)
Massachusetts Substance List- MMA
California Proposition 65 List.
This product does not any chemicals listed by the State of California to cause cancer and/or birth defects or other reproductive harm.

International Regulations:

Canadian Inventory (DSL)- Yes

SARA Hazards:

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

Additional Information If Applicable

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Section 16 – Other Information

NFPA Codes:	HMIS Codes:
Health: 2	Health: 2
Flammability: 3	Flammability: 3
Reactivity: 2	Reactivity: 2

Other Information:

If you require additional information regarding any legal or regulatory requirements referred to in this MSDS, 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.

Additional Information If Applicable

Reason for MSDS Revision: Initial preparation

This MSDS was prepared in accordance with the ANSI Z400.1 1993 Guideline for the Preparation of Material Safety Data Sheets.

KEY

N/A= Not Applicable

MSHA=Mine Safety and Health Administration

NIOSH=National Institute of Occupational Safety and Health

SARA= Superfund Amendment and Reauthorization Act

CNS= Central Nervous System

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

STEL=Short Term Exposure Limit

CEIL=Ceiling Limit Value

For additional product information, please call 800-354-9858.

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Section 1 – Product Identification

Product Name: Avonite Surfaces Ultra-Bond G

Synonyms: Solid Surface Adhesive Activator (Part B – in the smaller tube)

Chemical Name: Mixture

Section 2 – Composition/Information on Ingredients

Ingredient Name	CAS No.	% WT	Exposure Limits
Texanol Benzyl Phthalate	16883-83-3	30 - 60	Y (Hazardous)** 5 mg/m ³ Manufacturer
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

* 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.

Section 3 – Hazard Identification

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.

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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.

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

Additional Information If Applicable

Section 4 – First Aid Measures

Eyes:

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

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Skin:

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

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.

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.

Notes to Physicians: None known.

Section 5 – Fire Fighting

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

Flash Point: >200°F (93°C) (COC)

Extinguishing Media:

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

Fire Fighting Instructions:

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.

Unusual Fire and Explosion Hazards:

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.

Known or Anticipated Hazardous Products of Combustion:

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

Section 6 – Accidental Release Measures

Accidental Release Measures and Methods for Cleanup:

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.

Section 7 – Handling and Storage

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Handling:

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

Storage:

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

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.

Personal Protective Equipment:

Eye/Face:

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

Skin:

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

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/Chemical Properties

Appearance: Oily colorless liquid

Boiling Point: >550°F (287 °C)

Evaporation Rate: Not Determined

Freezing Point: Not Determined

Octanol/Water Partition

Coefficient: N/A

Odor: Mild ester

Percent Volatile: Not Determined

Molecular/Chemical Formula: Mixture

Bulk Density: N/A

Melting Point: Not Determined

Water/Oil Distribution

Coefficient: N/A

Odor Threshold: N/A

pH Value: N/A

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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

Section 10 – Stability/Reactivity

Stability:

Unstable

Conditions to Avoid:

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

Incompatibility With Other Materials:

Contact with strong oxidizers, strong alkalies and strong acids.

Hazardous Decomposition Products:

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

Hazardous Polymerization:

Will not occur

Section 11 – Toxicological Information

VALUE	ANIMAL	ROUTES	COMPONENTS
10 gm/kg	Guinea Pig	Dermal - LD ₅₀	Diisobutyl phthalate
15 gm/kg	Rat	Oral - LD ₅₀	Diisobutyl phthalate
6400 mg/kg	Rat	Oral - LD ₅₀	Benzoyl Peroxide
1200 mg/kg	Mouse	Oral - LD ₅₀	Benzoyl Peroxide

Toxicological Information:

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)

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

Additional Information If Applicable

Section 12 – Ecological Information

Ecological Information:

No ecological data are currently available.

Additional Information If Applicable

Section 13 – Disposal Considerations

Disposal Considerations:

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.

Additional Information If Applicable

Section 14 – Transport Information

Proper Shipping Name: Not Regulated

Hazard Class: N/A

ID Number: N/A

Packing Group: N/A

Additional Information If Applicable

See section 6 for Reportable Quantity (RQ) information.

Section 15 – Regulatory Information

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 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

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SARA Hazards:

Acute: Yes

Chronic: No

Reactive: Yes

Fire: No

Pressure: No

Additional Information If Applicable

Section 16 – Other Information

NFPA Codes:

Health: 2

Flammability: 1

Reactivity: 3

HMIS Codes:

Health: 2

Flammability: 2

Reactivity: 3

Other Information:

If you require additional information regarding any legal or regulatory requirements referred to in this MSDS, 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.

Additional Information If Applicable

Reason for MSDS Revision: Initial preparation

This MSDS was prepared in accordance with the ANSI Z400.1 1993 Guideline for the Preparation of Material Safety Data Sheets.

KEY

N/A= Not Applicable

MSHA=Mine Safety and Health Administration

NIOSH=National Institute of Occupational Safety and Health

SARA= Superfund Amendment and Reauthorization Act

CNS= Central Nervous System

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

STEL=Short Term Exposure Limit

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CEIL=Ceiling Limit Value

For additional product information, please call 800-354-9858.