



24-Hour Emergency Phone: INFOTRAC (800) 535-5035

Bond & Fill, LLC

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MATERIAL SAFETY DATA SHEET

Item Description: Bond&Fill Structural Adhesive / Filler – Slow Cure

Item Part Numbers: 400250, 810250, 810275, 810280

Components: **Bond & Fill Activator** (See Pages 1 – 6)
Bond & Fill Adhesive Resin (See Pages 6 – 13)

Revision Date: **January 1, 2010**

Component #1

I. **Product Name:** Bond & Fill Activator

Chemical Name	CAS#	Mix Proportion (by weight)
Methyl Methacrylate Monomer	82-62-6	60-100%
Trade Secret	n/a	5-10%
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	34562-31-7	1-5%
Non-hazardous Ingredients	n/a	10-30%

II. **Composition / Information on Ingredients:**

III. **Hazard Information**

HMIS Overview	
Health Hazard	2*
Fire Hazard	3
Reactivity	2
Personal Protection	<input checked="" type="checkbox"/>

* - Denotes Chronic Health Effects

Emergency Overview: WARNING! Flammable, Harmful, Skin Sensitizer, Irritant.

Route of Exposure: Eyes, Skin, Inhalation, Ingestion.

Potential Health Effects:

Eyes: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.



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Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. Item may cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material.

Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. Item may cause respiratory sensitization with asthma-like symptoms in susceptible individuals.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.

Target Organs: Eyes. Skin. Respiratory system. Digestive system. Liver. Kidney. Olfactory Function.

Aggravation of Pre-Existing Conditions: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

IV. First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Other First Aid: Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

V. Fire Fighting Measures

Flammable Properties: Flammable. Fine mists explosive below flash point.

Flash Point: 50°F (10°C)

Flash Point Method: Tag closed cup (TCC)

Auto Ignition Temperature: Not determined.

Lower Flammable/Explosive Limit: 2.1%

Upper Flammable/Explosive Limit: 12.5%

Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

Extinguishing Media: Use carbon dioxide (CO₂) or dry chemical when fighting fires involving this material.

Unsuitable Media: Water may cause frothing.

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire Hazards: Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.



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VI. Accidental Release Measures

Spill Cleanup Measures: Absorb spill with inert material (i.e. - dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container 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. Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash-back. Ventilate area. Use proper personal protective equipment as listed in section 8.

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Other Precautions: Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.

VII. Handling and Storage

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.

Special Handling Procedures: Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

Hygiene Practices: Wash thoroughly after handling.

VIII. Exposure Control / Personal Protection

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description: Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

Exposure Guidelines

Methyl Methacrylate Monomer:

Guideline ACGIH: 50 ppm

Guideline ACGIH: 50 ppm
Sensitizer.: Sen



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TLV-STEL: 100 ppm
TLV-TWA: 50 ppm

Guideline OSHA: 100 ppm
PEL-TWA: 100 ppm

Notes : Only established PEL and TLV values for the ingredients are listed.

IX. Physical and Chemical Properties

Physical State Appearance: Paste.

Odor: Fragrant.

Boiling Point: 213°F (100.5°C)

Melting Point: Not determined.

Specific Gravity: 0.96

Solubility: Not determined.

Vapor Density: 3.5 (air = 1)

Vapor Pressure: 28 mmHg @68°F

Percent Volatile: Not determined.

Evaporation Rate: 3 (butyl acetate = 1)

pH: 4.5-5.5 @ 5 Percent Solution

Molecular Formula: Mixture

Molecular Weight: Mixture

Flash Point: 50°F (10°C)

Flash Point Method: Tag closed cup (TCC)

Auto Ignition Temperature: Not determined.

VOC Content: <50 g/L mixed

Percent Solids by Weight Not determined.

X. Stability and Reactivity

Chemical Stability: Unstable.

Hazardous Polymerization: Polymerization may occur under certain conditions.

Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and rubber.

Incompatible Materials: Oxidizing agents (i.e.- peroxides, nitrates), reducing agents, acids, bases, azo-compounds, catalytic metals (i.e.- copper, iron), halogens. Free radical initiators. Oxygen scavengers.

XI. Toxicological Information

Methyl Methacrylate Monomer:

RTECS Number: OZ5075000

Eye: Eye - Rabbit Standard Draize Test.: 150 mg

Skin:

Intraperitoneal. - Guinea pig LD50: 1890 mg/kg [Behavioral – Somnolence (general depressed activity)]

Subcutaneous - Guinea pig LD50: 5954 mg/kg [Behavioral – Somnolence (general depressed activity)]

Oral - Rat LD50: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or

Respiration - Respiratory depression]



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Intraperitoneal. - Rat LD50: 1328 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Subcutaneous - Rat LD50: 7088 mg/kg [Behavioral - Somnolence (general depressed activity)]

Oral - Mouse LD50: 3625 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Intraperitoneal. - Mouse LD50: 945 mg/kg [Behavioral - Somnolence (general depressed activity)]

Subcutaneous - Mouse LD50: 5954 mg/kg [Behavioral - Somnolence (general depressed activity)]

Oral - Rabbit LD50: 8700 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Administration onto the skin - Rabbit LD50: >5 gm/kg [Skin and Appendages - Dermatitis, other (After systemic exposure)]

Oral - Guinea pig LD50: 5954 mg/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Gastrointestinal - Changes in structure or function of salivary glands]

Administration onto the skin - Rabbit Open irritation test: 10 gm

Inhalation:

Inhalation. - Rat LC50: 78000 mg/m³/4H [Details of toxic effects not reported other than lethal dose value.]

Inhalation. - Mouse LC50: 18500 mg/m³/2H [Details of toxic effects not reported other than lethal dose value.]

Ingestion:

Oral - Rat LD50: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or Respiration - Respiratory depression]

Oral - Mouse LD50: 3625 mg/kg [Details of toxic effects not reported other than lethal dose value.]

XII. Ecological Information

Eco-toxicity: No eco-toxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

XIII. Disposal Considerations

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

RCRA Number: D001

Important Disposal Information: DANGER! 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.

XIV. Transport Considerations

DOT Shipping Name: Adhesives

DOT UN Number: 1133

DOT Hazard Class: 3

DOT Packing Group: II

DOT Exemption: ORM-D Small quantity exemption

International Air Transportation (IATA) Exceptions: Consumer Commodity, class 9, ID 8000, less than 500ml

XV. Regulatory Information

Methyl Methacrylate Monomer:

TSCA Inventory Status: Listed

SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.



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New Jersey: Listed: NJ Hazardous List; Substance Number: 1277

Massachusetts: Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Listed

Canada DSL: Listed

3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine:

TSCA Inventory Status: Listed

Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): B2; D2B.

All components of this product are on the Canadian Domestic Substances List.

XV. Additional Information

HMIS Fire Hazard: 3

HMIS Health Hazard: 2*

HMIS Reactivity: 2

HMIS Personal Protection: X

MSDS Revision Date: 01/01/2010

MSDS Author: Bond & Fill. LLC

Disclaimer: This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

Component 2

I. **Product Name:** Bond & Fill Adhesive Resin

II. **Composition / Information on Ingredients:**

Chemical Name	CAS#	Mix Proportion (by weight)
Methacrylic Acid	79-41-4	5-10%
Diisopdecyl phthalate	26761-40-0	5-10%
Methyl Methacrylate Monomer	80-62-6	30-60%
2,6-Di-tertiary-butyl-para-cresol	128-37-0	1-5%
Chlorosulfonated polyethylene	63037-39-8	10-30%
Trade Secret	n/a	10-30%
Titanium dioxide	13463-67-7	10-30%



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III. Hazard Information

HMIS Overview	
Health Hazard	2*
Fire Hazard	3
Reactivity	2
Personal Protection	<input checked="" type="checkbox"/>

* - Denotes Chronic Health Effects

Emergency Overview: WARNING! Flammable, Harmful, Skin Sensitizer, Irritant.

Route of Exposure: Eyes, Skin, Inhalation, Ingestion.

Potential Health Effects:

Eyes: Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, corneal damage and permanent injury.

Skin: Can cause skin irritation; itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible. Item may cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material.

Inhalation: Respiratory tract irritant. High concentration may cause dizziness, headache, and anesthetic effects. Item may cause respiratory sensitization with asthma-like symptoms in susceptible individuals.

Ingestion: Causes irritation, a burning sensation of the mouth, throat and gastrointestinal tract and abdominal pain.

Chronic Health Effects: Prolonged skin contact may lead to burning associated with severe reddening, swelling, and possible tissue destruction.

Signs/Symptoms: Overexposure can cause headaches, dizziness, nausea, and vomiting.

Target Organs: Eyes, Skin, Respiratory system, Digestive system, Liver, Kidney, Olfactory Function.

Aggravation of Pre-Existing Conditions: Individuals with pre-existing skin disorders, asthma, allergies or known sensitization may be more susceptible to the effects of this product.

IV. First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Other First Aid: Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

V. Fire Fighting Measures

Flammable Properties: Flammable. Fine mists explosive below flash point.



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Flash Point: 50°F (10°C)

Flash Point Method: Tag closed cup (TCC)

Auto Ignition Temperature: 789° F

Lower Flammable/Explosive Limit: 1.7%

Upper Flammable/Explosive Limit: 12.5%

Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

Extinguishing Media: Use carbon dioxide (CO₂) or dry chemical when fighting fires involving this material.

Unsuitable Media: Water may cause frothing.

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire Hazards: Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization.

VI. Accidental Release Measures

Spill Cleanup Measures: Absorb spill with inert material (i.e. - dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container 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. Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash-back. Ventilate area. Use proper personal protective equipment as listed in section 8.

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Other Precautions: Pump or shovel to storage/salvage vessels. Add inhibitor to prevent polymerization.

VII. Handling and Storage

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.

Special Handling Procedures: Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product. Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

Hygiene Practices: Wash thoroughly after handling.

VIII. Exposure Control / Personal Protection

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or



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other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description: Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

Exposure Guidelines

Methacrylic acid:

Guideline ACGIH: 20 ppm

TLV-TWA: 20 ppm

Methyl Methacrylate Monomer:

Guideline ACGIH: 50 ppm

Sensitizer.: Sen

TLV-STEL: 100 ppm

TLV-TWA: 50 ppm

Guideline OSHA: 100 ppm

PEL-TWA: 100 ppm

2,6-Di-tertiary-butyl-para-cresol:

Guideline ACGIH: 2 mg/m³

TLV-TWA: 2 mg/m³ Inhalable vapor fraction (IVF)

Titanium dioxide:

Guideline ACGIH: 10 mg/m³

TLV-TWA: 10 mg/m³

Notes: Only established PEL and TLV values for the ingredients are listed.

IX. Physical and Chemical Properties

Physical State Appearance: Paste.

Odor: Strong Acrid

Boiling Point: >200°F (93.3°C)

Melting Point: Not determined

Specific Gravity: Not determined

Solubility: Not determined

Vapor Density: 3.5 (air = 1)

Vapor Pressure: 28 mmHg @68°F

Percent Volatile: Not determined

Evaporation Rate: 3 (butyl acetate = 1)

pH: Not determined

Molecular Formula: Mixture

Molecular Weight: Mixture



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Flash Point: 50°F (10°C)

Flash Point Method: Tag closed cup (TCC)

Auto Ignition Temperature: 789°F

VOC Content: <50 g/L mixed

Percent Solids by Weight: Not determined

X. Stability and Reactivity

Chemical Stability: Unstable.

Hazardous Polymerization: Polymerization may occur under certain conditions.

Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions. Oxygen-free atmospheres or inert gas blanketing. Freezing conditions. Material can soften paint and rubber.

Incompatible Materials: Oxidizing agents (i.e. - peroxides, nitrates), reducing agents, acids, bases, azo-compounds, catalytic metals (i.e. - copper, iron), halogens. Free radical initiators. Oxygen scavengers.

XI. Toxicological Information

Methacrylic acid:

RTECS Number: OZ2975000

Skin:

Unreported - Rat LD50: 1600 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Oral - Mouse LD50: 1250 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Intraperitoneal. - Mouse LD50: 48 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Unreported - Mouse LD50: 1250 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Oral - Rabbit LD50: 1200 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Administration onto the skin - Rabbit LD50: 500 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Administration onto the skin - Guinea pig LD50: 1 gm/kg [Details of toxic effects not reported other than lethal dose value.]

Oral - Rat LD50: 1060 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Ingestion:

Oral - Mouse LD50: 1250 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Oral - Rat LD50: 1060 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Diisodecyl phthalate:

RTECS Number: T11270000

Skin:

Oral - Rat LD50: 64 gm/kg [Details of toxic effects not reported other than lethal dose value.]

Administration onto the skin - Rabbit LD50: >3160 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Ingestion: Oral - Rat LD50: 64 gm/kg [Details of toxic effects not reported other than lethal dose value.]

Methyl Methacrylate Monomer:

RTECS Number: OZ5075000

Eye: Eye - Rabbit Standard Draize Test.: 150 mg

Skin: Intraperitoneal. - Guinea pig LD50: 1890 mg/kg [Behavioral – Somnolence (general depressed activity)]

Subcutaneous - Guinea pig LD50: 5954 mg/kg [Behavioral – Somnolence (general depressed activity)]



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Oral - Rat LD50: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or Respiration - Respiratory depression]

Intraperitoneal. - Rat LD50: 1328 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Subcutaneous - Rat LD50: 7088 mg/kg [Behavioral - Somnolence (general depressed activity)]

Oral - Mouse LD50: 3625 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Intraperitoneal. - Mouse LD50: 945 mg/kg [Behavioral - Somnolence (general depressed activity)]

Subcutaneous - Mouse LD50: 5954 mg/kg [Behavioral - Somnolence (general depressed activity)]

Oral - Rabbit LD50: 8700 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Administration onto the skin - Rabbit LD50: >5 gm/kg [Skin and Appendages - Dermatitis, other (After systemic exposure)]

Oral - Guinea pig LD50: 5954 mg/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Gastrointestinal - Changes in structure or function of salivary glands]

Administration onto the skin - Rabbit Open irritation test: 10 gm

Inhalation:

Inhalation. - Rat LC50: 78000 mg/m³/4H [Details of toxic effects not reported other than lethal dose value.]

Inhalation. - Mouse LC50: 18500 mg/m³/2H [Details of toxic effects not reported other than lethal dose value.]

Ingestion: Oral - Rat LD50: 7872 mg/kg [Behavioral - Muscle weakness Behavioral - Coma Lungs, Thorax, or Respiration - Respiratory depression]

Oral - Mouse LD50: 3625 mg/kg [Details of toxic effects not reported other than lethal dose value.]

2,6-Di-tertiary-butyl-para-cresol:

RTECS Number: GO7875000

Eye: Eye - Rabbit Standard Draize Test.: 100 mg/24H

Skin:

Oral - Mouse LD50: 650 mg/kg [Behavioral - Tremor Lungs, Thorax, or Respiration - Chronic pulmonary edema]

Intraperitoneal. - Mouse LD50: 138 mg/kg [Lungs, Thorax, or Respiration - Chronic pulmonary edema Lungs, Thorax, or Respiration - Other changes Blood - Hemorrhage]

Intravenous. - Mouse LD50: 180 mg/kg [Behavioral - Sleep]

Oral - Guinea pig LD50: 10700 mg/kg [Gastrointestinal - Hyper motility, diarrhea Behavioral - Tremor Lungs, Thorax, or Respiration - Respiratory depression]

Oral - Rabbit LD50: 2100 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Intraperitoneal. - Rat LD50: 8 gm/kg [Details of toxic effects not reported other than lethal dose value.]

Oral - Mouse LD50: 650 mg/kg [Behavioral - Tremor Behavioral - Ataxia Lungs, Thorax, or Respiration - Other changes]

Intraperitoneal. - Mouse LD50: 138 mg/kg [Lungs, Thorax, or Respiration - Acute pulmonary edema Blood - Hemorrhage]

Oral - Rat LD50: 890 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Oral - Mouse LD50: 1040 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Intraperitoneal. - Mouse LD50: 138 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Subcutaneous - Mouse LD50: 650 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Oral - Guinea pig LD50: 10700 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Ingestion:

Oral - Mouse LD50: 650 mg/kg [Behavioral - Tremor Lungs, Thorax, or Respiration - Chronic pulmonary edema]

Oral - Mouse LD50: 650 mg/kg [Behavioral - Tremor Behavioral - Ataxia Lungs, Thorax, or Respiration - Other changes]

Oral - Rat LD50: 890 mg/kg [Details of toxic effects not reported other than lethal dose value.]

Oral - Mouse LD50: 1040 mg/kg [Details of toxic effects not reported other than lethal dose value.]



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Titanium dioxide:

RTECS Number: XR2275000

Carcinogenicity: IARC: Group 2B: Possibly carcinogenic to humans.

XII. Ecological Information

Eco-toxicity: No eco-toxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

XIII. Disposal Considerations

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

RCRA Number: D001, D019

Important Disposal Information: DANGER! 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.

XIV. Transport Considerations

DOT Shipping Name: Adhesives

DOT UN Number: 1133

DOT Hazard Class: 3

DOT Packing Group: II

DOT Exemption: ORM-D Small quantity exemption

International Air Transportation (IATA) Exceptions: Consumer Commodity, class 9, ID 8000, less than 500ml

XV. Regulatory Information

Methacrylic acid:

TSCA Inventory Status: Listed

Massachusetts: Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Listed

Canada DSL: Listed

Diisodecyl phthalate:

TSCA Inventory Status: Listed

California PROP 65: Listed: developmental

Canada DSL: Listed

Methyl Methacrylate Monomer:

TSCA Inventory Status: Listed

SARA: EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.

New Jersey: Listed: NJ Hazardous List; Substance Number: 1277

Massachusetts: Listed: Massachusetts Oil and Hazardous List

Pennsylvania: Listed

Canada DSL: Listed



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2,6-Di-tertiary-butyl-para-cresol:

TSCA Inventory Status: Listed

Massachusetts: Listed

Pennsylvania: Listed

Canada DSL: Listed

Chlorosulfonated polyethylene:

TSCA Inventory Status: Listed

Canada DSL: Listed

Titanium dioxide:

TSCA Inventory Status: Listed

Massachusetts: Listed

Pennsylvania: Listed

Canada DSL: Listed

Canadian Regulations. WHMIS Hazard Class(es): B2; D2B

All components of this product are on the Canadian Domestic Substances List.

XV. Additional Information

HMIS Fire Hazard: 3

HMIS Health Hazard: 2*

HMIS Reactivity: 2

HMIS Personal Protection: X

MSDS Revision Date: 01/01/2010

MSDS Author: Bond & Fill. LLC

Disclaimer: This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guide for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.