

SDS SAFETY DATA SHEET



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BD8110/BD8120

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Acrylic Structural Bonding Adhesive Resin

Revision Date: 07/31/2024

Section 1 IDENTIFICATION

Product Name: BD8110/BD8120 Acrylic Structural Bonding Adhesive Resin

Manufacturer: Big Dog Adhesives, LLC

435 Harrison Street

Elkhart, INDIANA, USA 46516-2717

Phone: 1-833-244-3644 (1-833-BIG-DOGG) Fax: 1-833-244-3649 (1-833-BIG-DOGZ)

Email: lou@bigdogadhesives.com Website: www.bigdogadhesives.com

Trade Name:  Big Dog Acrylic Structural Bonding Adhesive Resin BD8110/BD8120


Materials Uses: Bonding and Adhering various plastic surfaces, fiberglass surfaces, gel coat, and various metals, including aluminum, steel, and stainless steel.

In Case of Emergency Contact CHEMTREC: 800-424-9300 (USA)
703-527-3887 (INTERNATIONAL)

Section 2 HAZARD IDENTIFICATION

GHS Classification:

CATEGORY	SIGNAL WORD	HAZARD STATEMENT(S)
Physical Flammable Liquids, Cat 2	DANGER	H225 – Highly flammable liquid and vapor
Health Skin sensitization, Cat 1A Skin corrosion/irritation, Cat 2 Serious eye damage/irritation, Cat 3 Specific target organ toxicity, single exposure; respiratory tract irritation, Cat 3 Acute toxicity, dermal, Cat 4 Acute toxicity, inhalation, Cat 4	WARNING WARNING WARNING WARNING WARNING WARNING	H317 – May cause an allergic skin reaction H315 – Causes skin irritation H319 – Causes serious eye irritation H335 – May cause respiratory irritation H312 – Harmful in contact with skin H332 – Harmful if inhaled
Environmental	NONE	



GHS Precaution Statements:

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace.

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Response:

IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

If skin irritation or rash occurs: Get medical help.

In case of fire: Use dry chemical or CO₂ to extinguish

Storage:

Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Disposal:

Dispose of contents/containers in accordance with local/regional/national/international regulations.

Route of Entry: Eye contact, skin contact, inhalation.

Target Organs: Skin, eyes, respiratory tract, digestive tract, liver, kidney, olfactory and Central Nervous System (CNS).

Skin Contact: May cause irritation of the skin. Prolonged exposure may cause sensitization. Preexisting skin conditions may be aggravated by exposure to this material.

Eye Contact: May cause irritation and/or sensitization.

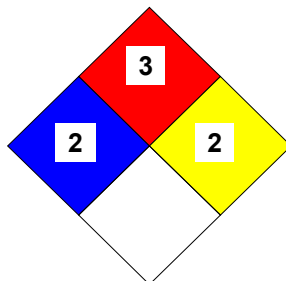
Respiratory Contact: Respiratory tract irritant. Prolonged exposure may result in dizziness, nausea, headache, and anesthetic effects. May cause sensitization. Preexisting respiratory conditions may be aggravated by exposure to this product. May cause CNS depression.

Ingestion: Not an expected route of entry. If ingested it may cause irritation to the gastrointestinal tract.

HMIS (United States)

Health 2
Flammability 3
Reactivity 2
PPE B

NFPA (United States)



WHMIS (Canada): B2, D2B



Section 3 COMPOSITION / INFORMATION ON INGREDIENTS

	Name	CAS #	% by Weight
Adhesive:	Methyl Methacrylate Monomer	80-62-6	40 – 70%
	Methacrylic Acid	79-41-4	2.5 – 10%
	Non Hazardous Ingredients	Not Applicable	15 – 35%

Section 4 FIRST-AID MEASURES

Skin: Remove contaminated clothing. Flush skin with water, then wash affected areas with soap and water. If irritation develops, seek medical attention. Wash or dispose of clothing before reuse.

Eye: Flush eyes with water for 15 minutes. Remove contact lenses prior to water flush if possible. Seek immediate medical attention.

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Respiratory: Remove patient to fresh air. If patient is having difficulty breathing, seek immediate medical attention. If not breathing, clear airway and start mouth-to-mouth artificial respiration (or use bag-mask respirator). Seek immediate medical attention.

Ingestion: Give patient water to dilute material in stomach. DO NOT induce vomiting. Seek immediate medical attention. If vomiting occurs naturally, have person lean forward to reduce risk of aspiration. DO NOT give anything by mouth to an unconscious person.

Section 5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: In case of fire, use dry chemical or CO₂. Water spray may cause frothing.

Specific Hazards Arising from the Chemical: Sealed containers of adhesive may rupture violently at elevated temperatures due to polymerization. Organic peroxides can decompose violently if heated while confined.

Special Protective Equipment and Precautions for Firefighters: Use self-contained breathing apparatus (SCBA) and protective clothing.

Flash Point and Method: 50°F (10°C). Fine mists may be explosive below the flash point. Tag Closed Cup.

Flammability Classification: Class 1B.

Risk of Explosion due to Mechanical Impact: Not Applicable.

Risk of Explosion due to Static Discharge: Not Applicable.

Hazardous Products of Combustion: Carbon Oxides (CO and CO₂), Methyl Methacrylate, and various Hydrocarbons.

Autoignition Temp.: 790°F (421°C).

LEL: 1.7%.

UEL: 12.5%.

Section 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: For large spill or leak wear self-contained breathing apparatus (SCBA) and appropriate PPE.

Environmental Precautions: Keep out of sewers and drains.

Clean-Up Methods and Materials: Absorb with an inert material and place in an appropriate container for disposal.

Section 7 HANDLING AND STORAGE

Handling Precautions: Avoid breathing vapors. Use in a well-ventilated area. Wear rubber gloves (nitrile or butyl) and chemical resistant apron. Wear chemical splash goggles. Do not reuse empty containers.

Storage Precautions: Store in a cool, dry, well-ventilated area at temperatures less than 75°F (25°C). Storage above 212°F (100°C) may cause explosive decomposition. Avoid storage in direct sunlight. Keep containers closed when not in use. Keep away from heat sources, sparks, and open flames.

Section 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters and Exposures:

Material Name:

Methacrylic Acid (CAS 79-41-4):

Methyl Methacrylate (CAS 80-62-6):

Exposure Limits:

ACGIH TLV: TWA 20 ppm

OSHA PEL: TWA 100 ppm

ACGIH TLV: TWA 50 ppm

STEL 100 ppm

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Engineering Controls: Provide adequate explosion proof ventilation (general or local exhaust). Ensure that a working eyewash and safety shower are in the work area.

Individual Protection Measures and PPE:

Eye / Face Protection: Wear safety glasses with side shields or splash goggles.

Skin Protection: Chemical resistant gloves (nitrile or butyl) and chemical resistant apron are recommended.

Respiratory Protection In case of insufficient ventilation, wear an approved (NIOSH) respirator with organic vapor cartridge and dust/mist pre-filter.

Thermal Hazards: None.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colored (various) Paste
Odor:	Mild Sweet
Odor Threshold:	Not Available
pH:	4.0 – 6.0
Melting Point / Freezing Point:	-54°F (-48°C)
Initial Boiling Point and Boiling Range:	-54°F (-48°C)
Flash Point and Method:	50°F (10°C) Tag Closed Cup
Evaporation Rate:	3
Flammability:	Class 1B
Lower Explosion Limit:	1.7%
Upper Explosion Limit:	12.5%
Vapor Pressure:	28 mm Hg @ 68°F (20°C)
Vapor Density:	3.5
Relative Density:	7.7 – 8.8 lbs./gallon
Solubility(ies):	Not Available
Partition Coefficient (n-Octanol in Water):	Not Applicable
Auto-Ignition Temperature:	790°F (421°C)
Decomposition Temperature:	Not Available
Viscosity:	Not Available
Percent Volatile:	Not Available
Specific Gravity:	0.93 – 1.05
VOC:	< 50 g/L of mixed product

Section 10 STABILITY AND REACTIVITY

Reactivity: Product is stable as supplied and when used as intended. Product can become unstable under certain conditions or in contact with incompatible materials.

Chemical Stability: Not Available.

Possibility of Hazardous Reactions: Polymerization may occur under certain conditions.

Conditions to Avoid: Avoid extreme temperatures, open flames, sparks, and direct sunlight.

Materials to Avoid (Incompatibility): Oxidizing agents and conditions, strong acids and alkalies, oxygen-free atmospheres, inert gas blanketing, and free radical initiators.

Hazardous Decomposition Products: Carbon Oxides (CO, CO₂), Methyl Methacrylate, and various Hydrocarbons.

Section 11 TOXICOLOGICAL INFORMATION

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Acute Toxicity to Animals:

Methyl Methacrylate (CAS 80-62-6):	LC50 = 7093 ppm (4 hour inhalation, rat) LD50 = 7940 mg/kg (oral, rat) LD50 > 7550 mg/kg (dermal, rabbit)
Methacrylic Acid (CAS 79-41-4):	LC50 = 7100 mg/m ³ (4 hour inhalation, rat) LD50 > 7550 mg/kg (oral, rat) LD50 = 1600 mg/kg (oral, mouse) LD50 > 500 mg/kg (dermal, rabbit)

Acute Toxicity to Humans: This product has not been tested for human effects. No additional information.

Chronic Toxicity to Animals: This product has not been tested for animal effects. No additional information.

Chronic Toxicity to Humans: This product has not been tested for human effects. No additional information.

Skin Corrosion / Irritation: Not Available.

Eye Damage / Irritation: Not Available.

Respiratory Sensitization: Not Available.

Skin Sensitization: Not Available.

Mutagenicity: Classifiable as "none" for human.

Carcinogenicity: Not classifiable for human or animal.

Reproductive Toxicity: Not Available.

Teratogenic Effects: Classifiable as "none" for human.

Aspiration Hazard: Not Available.

Section 12 ECOLOGICAL INFORMATION

Ecotoxicity: This product contains components that may be harmful to aquatic organisms and may cause long term adverse effects in an aquatic environment.

Persistence and Degradability: Not Available.

Bioaccumulative Potential: This product contains components with the potential to bio-accumulate.

Mobility in Soil: Not Available.

Other Adverse Effects: Not Available.

Section 13 DISPOSAL CONSIDERATIONS

Disposal Methods:

Adhesive is considered Hazardous Waste Product per RCRA 40 CFR 261 and is classed as D001. Spilled, contaminated, or waste material should be put into a suitable container and handled according to Federal, State, and local regulations. Contact a qualified waste management company for assistance.

DANGER! Rags, steel wool, and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. Waste should be immediately placed in a sealed water filled container.

Section 14 TRANSPORT INFORMATION

UN Number: UN1133.

UN Proper Shipping Name: Adhesives

Transport Hazard Class: 3

Packing Group: II

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Special Provision for Transport: May be eligible to ship under Limited Quantity exceptions. See 49 CFR 172.102 & 49 CFR 173.150 (a) (2).

Marine Pollutant: No

Section 15 REGULATORY INFORMATION

U.S. Federal Regulations

Chemical (& CAS Number)	SARA 302 (EHS)TPQ	SARA 304 (EHS)Rq	SARA 313 <i>de minimis</i>	CERCLA Rq	CAA 112(r) TQ	RCRA Code
Methyl Methacrylate (CAS 80-62-6)			1.0	1000		U162
Methacrylic Acid (CAS 79-41-4)						

All quantities in pounds.

State Regulations

California Prop 65:



WARNING: This product can expose you to chemicals including CUMENE, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

TSCA (Toxic Substances Control Act): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory Requirements.

International Regulations:

DSL (Canada Domestic Substance List): All components of this product are on the DSL (Canada Domestic Substance List) or are exempt from DSL.

RoHS: Complies with RoHS 3 without exemptions. (EU Directive 2015/863)

REACH: No SVHC's are present in a concentration above 0.1% as per Regulation EC1907/2006.

Section 16 OTHER INFORMATION

Changes to This Revision: July 31st, 2024

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Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named manufacturer nor any of its subsidiaries assumes any liability whatsoever for accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

END OF SDS DOCUMENT