

MATERIAL SAFETY DATA SHEET

Dated Prepared: Dec 1, 2018
MSDS No: CB-50ML & CB-400ML

1. PRODUCT AND COMPANY IDENTIFICATION:

Product Name: Clip Bonder Adhesive (50ml and 400ml, and other sizes as necessary)

Product Description: Clip Bonder is a two part, non-UV Stable, reactive, structural 1:1 acrylic adhesive for secondary bonding in the countertop markets.

Company Identification: GLUE 360 INC PO Box 809 Cedar Creek, TX 78612

24 HR. EMERGENCY TELEPHONE NUMBERS

INFOTRAC (USA and Canada): 1-800-535-5053

INFOTRAC (International): 1-352-323-3500

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Chemical Name	CAS#	Percent ACGIH TLV	OSHA PEL
Methyl Methacrylate	80-62-6	60 - 90% TWA – 50 PPM	TWA - 50 PMM
Methacrylic Acid	79-41-4	3 - 15% TWA – 20 PPM	TWA – 20 PPM

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW – Non-hazardous PRODUCT when used as intended.

NFPA Rating: Health - 2, Flammability - 3, Reactivity – 2, PPE – 2

NFPA Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme).

Potential Health Effects:

Routes of Entry: Skin contact, eye contact, inhalation, and ingestion.

Target Organs: Skin, eyes, respiratory and digestive system, and Central Nervous System (CNS).

Inhalation: Breathing vapors may cause irritation to the respiratory tract. Prolonged exposure may result in dizziness, nausea, headache, and anesthetic effects. May cause respiratory sensitization with asthma like symptoms in susceptible individuals.

Ingestion: Not expected route of entry. If ingested, it may cause irritation to the gastro-intestinal tract with symptoms including a burning sensation and abdominal pain. May act as CNS depressant.

Skin Contact: May cause skin irritation including itching, redness, rashes, burning and swelling. Allergic reactions are possible. Prolonged exposure may cause sensitization, rashes or burns.

Eye Contact: May cause eye irritation and/or sensitization including burning sensation, tearing, redness, and swelling. Overexposure may result in lacrimation, conjunctivitis, corneal damage, and permanent injury.

4. FIRST AID MEASURES

Inhalation: Remove patient to fresh air. If patient is having difficulty breathing, see immediate medical attention. If not breathing, clear airway and start mouth to-mouth artificial respiration. Seek immediate medical attention.

Ingestion: Give patient 3 to 4 glasses of water. DO NOT induce vomiting. DO NOT give anything by mouth to an unconscious person.

Skin Contact: Flush skin with water for at least 15 minutes, then wash affected areas with soap and water. Remove contaminated clothing.

Eye Contact: Flush eyes with water for 15 minutes. Remove contact lenses prior to water flush. Seek immediate medical attention on any exposure.

5. FIRE FIGHTING MEASURES:

Flash Point: 51°F (11°C)

Auto-ignition temperature: 790°F (421°C)

Flash Point Method: TCC for Adhesive.

Flammable limits in air % by volume: LEL: 1.7% UEL: 12.5%

Burning Rate: Not Available.

Fire Extinguishing Media: In case of fire, use dry chemical, CO₂, or water spray to extinguish fire. Avoid water jet or stream due to frothing of product.

Special Fire Fighting Procedures: Use self-contained breathing apparatus with a full-face piece and pressure demand or other positive-pressure mode.

Special Remarks: This product can produce flammable vapors that may travel long distances to an ignition source and flash back. Sealed containers of adhesive may rupture explosively at elevated temperatures due to polymerization.

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

6. ACCIDENTAL RELEASE MEASURES:

Small Spill or Leak: Absorb with an inert material and place in an appropriate disposal container. Keep out of sewers and drains.

Large Spill or Leak: Wear self-contained breathing apparatus with appropriate PPE. Absorb with an inert material and place in an appropriate disposal container.

7. HANDLING AND STORAGE:

Handling Precautions: Avoid breathing vapors. Use in a well-ventilated area. Wear rubber gloves (nitrile or butyl). Wear chemical splash goggles or safety glasses with side shields. Use a chemically resistant apron. Wash with soap and water after use.

Storage Precautions: Store in a cool (<75°F (25°C)), dry, well-ventilated area. Keep container closed when not in use and away from heat sources, sparks, and open flames. Storage above 212°F (100°C) may cause explosive decomposition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Engineering Controls: Provide adequate ventilation. Ensure that a working eyewash and safety shower are in the work area.

Protective Equipment: Wear splash goggles or safety glasses with side shields, and neoprene or rubber gloves. Exposed skin should be covered to prevent contact with product. Use chemically resistant apron to minimize skin contact and clothing contamination. In case of insufficient ventilations, wear an approved (NIOSH) respirator with an organic vapor cartridge and dust/mist pre-filter. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

Hygiene Practices: Do not eat, drink or smoke when working with this material. Wash hands before and after work.

Exposure Guidelines/Other:

<u>Chemical Name</u>	<u>CAS#</u>	<u>Percent ACGIH TLV</u>	<u>OSHA PEL</u>
Methyl Methacrylate	80-62-6	60 - 90% TWA – 50 PPM	TWA - 50 PMM
Methacrylic Acid	79-41-4	3 - 15% TWA – 20 PPM	TWA – 20 PPM

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Color Liquid Paste
Boiling Point: 212°F (100°C)
Freezing Point/Melting Point: Not Available
Specific Gravity: .90 to 1.10 (Water = 1) pH: 4.0 to 6.0

Color: Varies, including clear
Physical State: Liquid
Odor: Mild/Sweet
Solubility: Not Soluble in Water

Vapor Pressure: 28 mm Hg @ 68°F
CPS Vapor Density: >1 (Air =1)
VOC: < 50 gm/l mixed product

Viscosity: 30,000 to 100,000
Evaporation Rate: 3 (butyl acetate = 1)
Percent Solids by Weight: Not Available

10. STABILITY AND REACTIVITY:

Handling Precautions: Avoid breathing vapors. Use in a well-ventilated area. Wear rubber gloves (nitrile or butyl). Wear chemical splash goggles or safety glasses with side shields. Use a chemically resistant apron. Wash with soap and water after use.

Storage Precautions: Store in a cool (<75°F (25°C)), dry, well-ventilated area. Keep container closed when not in use and away from heat sources, sparks, and open flames. Storage above 212°F (100°C) may cause explosive decomposition.

11. TOXICOLOGICAL INFORMATION:

Acute Toxicity to Animals:

Methyl Methacrylate:

LC50 = 7093 mg/m3 (4 hour, rat)	Methacrylic Acid:	LC50 = 7100 mg/kg (oral rat)
LD50 = 7940 mg/kg (oral, rat)		LD50 > 7550 mg/kg (oral, rat)
LD50 = 3625 mg/kg (oral, mouse)		LD50 = 1600 mg/kg (oral, mouse)
LD50 > 7550 mg/kg (dermal, rabbit)		LD50 > 500 mg/kg (dermal, rabbit)

Chronic Toxicity to Animals: No additional information.

Acute Toxicity to Humans: No additional information.

Chronic Effects on Humans: No additional information.

Carcinogenic Effects: Not classifiable for human or animal.

Mutagenic Effects: Classifiable None for human.

Teratogenic Effects: Classifiable None for human.

Developmental Toxicity: Classifiable None for human.

May Cause Damage to the Following Organs: No additional information.

12. ECOLOGICAL INFORMATION:

Fish Toxicity: Methyl Methacrylate, 150 ppm 96 hour LC50 (flathead minnow), 232 ppm 96 hour LC50 (bluegill sunfish).

Ecotoxicity: No additional information.

BOD5 and COD: Not Available.

Biodegradable/OECD: Not Available

Toxicity of the Products of Biodegradation: Not Available

Special Remarks on the Products of Biodegradation: Not Available.

13. DISPOSAL CONSIDERATIONS:

Hazardous waste product (RCRA 40 CFR 261) classified 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. Dispose of in accordance with federal, state and local requirements.

14. TRANSPORTATION INFORMATION:

Proper Shipping Name: Adhesive, containing a flammable liquid.
Hazard Class: 3
Identification Number: UN 1133
Packing Group: II
Label Code: 3

15. REGULATORY INFORMATION:

REGULATORY INFORMATION US Federal and State Regulations All quantities in pounds

Chemical (& CAS No)	SARA 302 (EHS) TPQ	SARA 304 (EHS)Rq	SARA 313 de minimis	Cercla Rq	CAA 112(r) TQ	RCRA Code
Methyl Methacrylate (80-62-6)			1.0	1,000		U162
Methacrylic Acid (71-41-3)	CA Prop 65	MA RTK	MN RTK	NJ RTK	PA RTK	RI RTK

DSL (Canada): The chemicals in this product are listed. **EINECS:** The chemicals in this product are listed.
WHIMS: B2, C, and D2B.

16. OTHER INFORMATION:

Prepared By: GLUE 360 INC
Approval Date: December 1, 2018
Supersedes Date: New

This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2004). The data contained in this Material Safety Data Sheet relates only to the specific product designated herein and does not relate in any way to use in combination with any other material(s), product or process. The information and statements contained herein are believed to be reliable but are not to be construed as a warranty or representation for which GLUE 360 INC assumes legal responsibility. GLUE 360 INC, MAKES NO WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN. EXCLUDED ARE ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Users should undertake verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein.

END OF MSDS DOCUMENT

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 FOR PROFESSIONAL OR INDUSTRIAL USE ONLY
 USE ONLY WITH APPROVED EQUIPMENT**