

**Ultimate Performance Series** 

Safety Data Sheet

#### MMA 310, MMA 330, MMA 350, MMA 390 Structural Methacrylate Adhesive - Cartridges

SDS Number: Page 1 of 7

Date:10/2019

Section 1 **IDENTIFICATION** 

Product Name: MMA 310, MMA 330, MMA 350, MMA 390 Structural Methacrylate Adhesive Cartridges

Manufacturer: Infinity Bond Adhesives 7667 Cahill Rd #100 Minneapolis, MN 55439 Phone: (844)366-7272 Email: sales@infinitybond.com Website: www.infinitybond.com

Trade Name: MMA, 310, MMA 330, MMA 350, MMA 390

Materials Uses: High strength acrylic adhesive for bonding steel, aluminum, fiberglass, plastic and various substrates together.

In Case of Emergency Contact CHEMTREC:1-800-424-9300

#### Section 2 HAZARD IDENTIFICATION

#### **GHS Classification:**

CATEGORY	SIGNAL WORD	HAZARD STATEMENT(S)
Physical Flammable Liquids, Category 2	DANGER	H225 – Highly flammable liquid and vapor
Health Acute Oral Toxicity, Category 4 Skin Corrosion, Category 1 Serious Eye Damage, Category 1 Skin Sensitization, Category 1 STOT SE, Category 3	WARNING WARNING WARNING WARNING WARNING	H302 – Harmful if swallowed H314 – Causes severe skin burns and eye damage H318 – Causes serious eye damage H317 – May cause an allergic skin reaction H335 – May cause a respiratory irritation
Environmental Acute, Category 3 Chronic, Category 4		H402 – Harmful to aquatic life H413 – May cause long lasting harmful effects to aquatic life



#### **GHS Precaution Statements:**

#### Prevention:

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/Bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.

## **D**infinity bond

**Ultimate Performance Series** 

Safety Data Sheet

**Buy Better Glue. For Less.**®

MMA 310. MMA 330. MMA 350. MMA 390

SDS Number: Structural Methacrylate Adhesive - Cartridges Page 2 of 7 P243 - Take precautionary measures against static discharges. P260 – Do not breathe dust/fume/gas/mist/vapors/spray. P261 – Avoid breathing dust/fume/mist/vapors/spray. P264 – Wash hands (or other affected skin surfaces) thoroughly after handling. P270 – Do not eat, drink, or smoke when using this product. P271 – Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 – Avoid release to the environment P280 – Wear protective gloves/protective clothing/eye protection/face protection. Response: P301/P330/P331 – IF SWALLOWED: Rinse mouth. Do not induce vomiting. P302/P352 – IF ON SKIN: Wash with plenty of soap and water. P303/P361/P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304/P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305/P351/P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 – Immediately call a POISON CENTER or doctor/physician. P312 - Call a POISON CENTER or doctor/physician if you fell unwell. P333/P313 – If skin irritation or rash occurs get medical advice/attention. P362/P364 – Take off contaminated clothing and wash it before reuse. P363 – Wash contaminated clothing before reuse. P370/P378 – In case of fire: Use dry chemical or CO<sub>2</sub> to extinguish small fires. Use water for large fires. Storage: P403 - Store in a well-ventilated place. P410 – Protect from sunlight. P411 – Store at temperatures not exceeding 25°C (75°F). **Disposal:** P501 – Dispose of contents/containers in accordance with local/regional/national/international regulations. Route of Entry: Eye contact, skin contact, inhalation, and ingestion. 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.

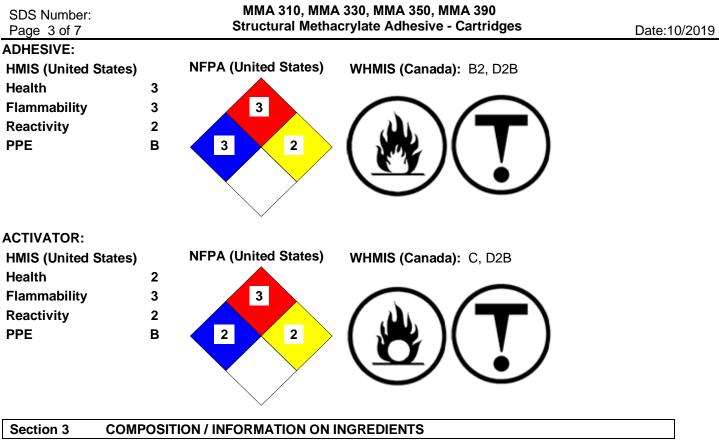
**Ingestion:** Not an expected route of entry. If ingested it may cause irritation to the gastrointestinal tract.

Date:10/2019



**Ultimate Performance Series** 

Safety Data Sheet



-			
	Name	CAS #	% by Weight
Adhesive:	Methyl Methacrylate Monomer	80-62-6	40 – 70%
	Maleic Acid Powder	110-16-7	1 – 5%
	Non Hazardous Ingredients	Not Applicable	15 – 35%
Activator:	Methyl Methacrylate Monomer	80-62-6	40 – 70%
	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.
- **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 CO<sub>2</sub>. Water spray may cause frothing.

**Specific Hazards Arising from the Chemical:** Sealed containers of a temperatures due to polymerization. Organic peroxides can decompc

ure violently at elevated ited while confined.

# **infinity bond**

Buy Better Glue. For Less."

**Ultimate Performance Series** 

### Safety Data Sheet

SDS Number: Page 4 of 7	MMA 310, MMA 330, MMA 350, MMA 390 Structural Methacrylate Adhesive - Cartridges	Date:10/2019
Special Protective Equi	ipment and Precautions for Firefighters: Use self-contained breathing app	aratus
(SCBA) and protective	clothing.	
Flash Point and Method	d: 50°F (10°C). Fine mists may be explosive below the flash point. Tag Close	ed Cup.
Flammability Classifica	tion: Class 1B.	
Risk of Explosion due t	o Mechanical Impact: Not Applicable.	
Risk of Explosion due t	to Static Discharge: Not Applicable.	
Hazardous Products of Hydrocarbons.	<b>Combustion:</b> Carbon Oxides (CO and CO <sub>2</sub> ), Methyl Methacrylate, and varie	SUS

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 selfcontained 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: Maleic Acid Powder (CAS 110-16-7): 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

**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

Adhesive Colored (various) Paste

Appearance:

### Sinfinity bond Buy Better Glue. For Less.®

**Ultimate Performance Series** 

Safety Data Sheet

	MMA 310, MMA 330, MMA 350, MMA 390 Structural Methacrylate Adhesive - Cartridges			
Odor:	Mild Sweet	Mild Sweet		
Odor Threshold:	Not Available	Not Available		
pH:	4.0 - 6.0	4.0-6.0		
Melting Point / Freezing Point:	-54°F (-48°C)	-54°F (-48°C)		
Initial Boiling Point and Boiling Range	212°F (100°C)	212°F (100°C)		
Flash Point and Method:	50°F (10°C) Tag Closed Cup	50°F (10°C) Tag Closed Cup		
Evaporation Rate:	3	3		
Flammability:	Class 1B	Class 1B.		
Lower Explosion Limit:	1.7%	1.7%		
Upper Explosion Limit:	12.5%	12.5%		
Vapor Pressure:	28 mm Hg @ 68ºF (20ºC)	28 mm Hg @ 68ºF (20ºC)		
Vapor Density:	3.5	3.5		
Relative Density:	7.7 – 8.8 lbs./gallon	7.7 – 8.8 lbs./gallon		
Solubility(ies):	Not Available	Not Available		
Partition Coefficient (n-Octanol in Wa	er): Not Applicable	Not Applicable		
Auto-Ignition Temperature:	790°F (421°C)	790°F (421°C)		
Decomposition Temperature:	Not Available	Not Available		
Viscosity (Dynamic CPS/mPA-s):	40k to 250k	60k to 250k		
Percent Volatile:	Not Available	Not Available		
Specific Gravity:	0.93 – 1.05	0.93 – 1.05		
VOC:	< 50 g/L of mixed product	< 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, CO<sub>2</sub>), Methyl Methacrylate, and various Hydrocarbons.

Section 11	TOXICOLOGICAL INFORMATION	
Acute Toxic	ity to Animals:	
Adhesive:	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)
	Maleic Acid Powder (CAS 110-16-7):	LC50 = Not Determined
		LD50 = Not Determined
		LD50 = Not Determined
		LD50 = Not Determined
Activator:	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)



Buy Better Glue. For Less."

**Ultimate Performance Series** 

Safety Data Sheet

SDS Number: Page 6 of 7	MMA 310, MMA 330, MMA 350, MMA 390 Structural Methacrylate Adhesive - Cartridges	Date:10/2019
Acute Toxicity to Humans	s: This product has not been tested for human effects. No additional inform	nation.
<b>Chronic Toxicity to Anima</b>	als: This product has not been tested for animal effects. No additional info	rmation.
<b>Chronic Toxicity to Huma</b>	ans: This product has not been tested for human effects. No additional info	ormation.
Skin Corrosion / Irritation	1: Not Available.	
Eye Damage / Irritation: 1	Not Available.	
<b>Respiratory Sensitization</b>	1: Not Available.	
Skin Sensitization: Not A	vailable.	
Mutagenicity: Classifiable	e as "none" for human.	
Carcinogenicity: Not clas	ssifiable for human or animal.	
Reproductive Toxicity: N	lot Available.	

Teratogenic Effects: Classifiable as "none" for human.

STOST- Single Exposure: Not Available.

STOST - Repeated Exposure: Not Available.

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. Do not empty into drains.

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:** 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. **Activator:** Not a hazardous waste product (RCRA 50 CFR 261). May be disposed of in landfill or by incineration. Dispose of in accordance with Federal, State, and local regulations.

**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 (DOT), Flammable Liquid.

Transport Hazard Class: 3.

Packing Group: II.

**DOT Classification:** UN1133, Adhesives, Flammable Liquid, Hazard Class 3, Packing Group II, Limited Quantity.

**Special Provision for Transport:** 1 Liter (0.3 gallon) or less may use Limited Quantity exceptions (49 CFR 172.102 & 49 CFR 173.150 (a) (2)).

ADR / RID Classification: Class 3 Flammable Liquid.

ICAO/IATA Classification: Class 3 Flammable Liquid.

IMO/IMDG Classification: Class 3 Flammable Liquid.



Safety Data Sheet

Buy Better Glue. For Less.

SDS Number: Page 7 of 7

#### MMA 310, MMA 330, MMA 350, MMA 390

**Structural Methacrylate Adhesive - Cartridges** 

Date:10/2019

Marine Pollutant: No additional information.

#### Section 15 REGULATORY INFORMATION

#### **U.S. Federal Regulations**

Chemical (& CAS Number)		SARA 313 de minimis		CAA 112(r) TQ	RCRA Code
Methyl Methacrylate (CAS 80-62-6)		1.0	1000		U162
Maleic Acid Powder (CAS 110-16-7)					

All quantities are in pounds.

#### **State Regulations**

Chemical (& CAS Number)	CA Prop 65	MA RTK	MN RTK	NJ RTK	PA RTK	RI RTK
Methyl Methacrylate (CAS 80-62-6)		Х	Х	Х	Х	Х
Maleic Acid Powder (CAS 110-16-7)		Х		Х	Х	

**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.

EINECS: Not Available.

WHMIS: B2, C, D2B.

Section 16 OTHER INFORMATION

Changes to This Revision: October 2019

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