

Safety Data Sheet

acc. to OSHA HCS

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1 Identification

- Product identifier

- *Trade name:* Infinity Bond MMA 500 Methacrylate Adhesives
 - Synonyms: MMA 500
 - Part number: INFINITY MMA-500
 - Application of the substance / the mixture Adhesives

- Details of the supplier of the safety data sheet

- Manufacturer/Supplier: Infinity Bond Adhesives 7667 Cahill Road STE 100 Minneapolis, MN 55439 Telephone: +1-844-366-7272 Email: info@infinitybond.com Website: www.infinitybond.com

- Information department: Product Safety Department
- Emergency telephone number:
- CHEM-TEL (800) 255-3924 (within USA)

2 Hazard(s) identification

- Classification of the substance or mixture



Skin Irrit. 2 H315 Causes skin irritation.

- Eye Irrit. 2A H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Flam. Lig. 4 H227 Combustible liquid.

- Label elements

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
 - Hazard pictograms



- Signal word Warning
- Hazard-determining components of labeling:
- tetrahydrofurfuryl methacrylate
- 2-Butenedioic acid (2Z)
- 2-ethylhexyl methacrylate
- Monofunctional acid ester

- Hazard statements

- H227 Combustible liquid.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H335 May cause respiratory irritation.

- Precautionary statements

- P210 Keep away from flames and hot surfaces. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P280 Wear protective gloves.
- P280 Wear eye protection / face protection.

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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing.
P312	Call a poison center/doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eve irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
sification syste	

- Classification system: - NFPA ratings (scale 0 - 4)



- HMIS-ratings (scale 0 - 4)

HEALTH *2	Health = *2
FIRE 2	Fire = 2
REACTIVITY 0	Reactivity = 0

- Other hazards

- Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.

CAS: 2455-24-5	tetrahydrofurfuryl methacrylate	50 - 59%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
CAS: 20882-04-6	Butanedioic acid	10 – 19%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319	1
CAS: 688-84-6	2-ethylhexyl methacrylate	5 – 9%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Flam. Liq. 4, H227	1
CAS: 69912-79-4	Desiccant	5 – 9%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	1
CAS: 110-16-7	2-Butenedioic acid (2Z)	1-4%
	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 67762-90-7	Amorphous Silica	1 – 4%
	Combustible Dust	1
	Monofunctional acid ester	≤ 1%
	Acute Tox. 3, H311; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1, H317	1

4 First-aid measures

- Description of first aid measures

- After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
 - Most important symptoms and effects, both acute and delayed No further relevant information available.
 - Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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5 Fire-fighting measures Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. CO2, sand, extinguishing powder. Do not use water. - For safety reasons unsuitable extinguishing agents: Water - Special hazards arising from the substance or mixture No further relevant information available. - Advice for firefighters Protective equipment: Wear self-contained respiratory protective device. Wear fully protective suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources Wear protective clothing. - Environmental precautions: Do not allow to enter sewers/ surface or ground water. - Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents Dispose of the collected material according to regulations. Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. 7 Handling and storage - Handling: Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

- Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.

- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.

- Control parameters

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls

Personal protective equipment:

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber, NBR

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection: Safety glasses

Tightly sealed goggles

- Body protection: Protective work clothing

9 Physical and chemical properties

9 Physical and chemical properties	
- Information on basic physical and che - General Information - Appearance:	
- Form:	Pasty
- Color:	According to product specification
- Odor:	Characteristic
- Odor threshold:	Not determined.
- pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. ≥ 59 – ≤ 62 °C (≥ 138.2 – ≤ 143.6 °F)
- Flash point:	≥ 92 °C (≥ 197.6 °F)
- Flammability (solid, gaseous):	Not applicable.
- Decomposition temperature:	Not determined.
- Auto igniting:	Product is not selfigniting.
- Danger of explosion:	Not determined.
- Explosion limits:	
- Lower:	Not determined.
- Upper:	Not determined.
- Vapor pressure:	Not determined.
- Density at 20 °C (68 °F):	~ 1.11747 g/cm³ (~ 9.32529 lbs/gal)
 Relative density 	Not determined.
- Vapor density	Not determined.
- Evaporation rate	Not determined.
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.
- Partition coefficient (n-octanol/wate	er): Not determined.
- Viscosity:	
- Dynamic:	Not determined.
- Kinematic:	Not determined.
- Solvent content:	
- VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
- Solids content:	20.2 %

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- Other information	No further relevant information available.	
0 Stability and reactivity		
- Reactivity No further relevant inf	ormation available.	
- Chemical stability		
- Thermal decompositio	on / conditions to be avoided: No decomposition if used according to specifications.	
	tions No dangerous reactions known.	
 Conditions to avoid No further Incompatible materials: No fu 		
	roducts: No dangerous decomposition products known.	
1 Toxicological information		
T TOXICOlOgical Information		
 Information on toxicological Acute toxicity: 	effects	
- LD/LC50 values that a	re relevant for classification:	
ATE (Acute Toxicity Estimate)		
Oral LD50 20,229 mg/kg (rat)		
Dermal LD50 17,931 mg/kg		
CAS: 110-16-7 2-Butenedioic aci	d (2Z)	
Oral LD50 708 mg/kg (rat)		
Dermal LD50 1,560 mg/kg (rabbit)	
Monofunctional acid ester		
Dermal LD50 300 mg/kg (ATE)		
- Primary irritant effect:		
	o skin and mucous membranes.	
- on the eye: Irritating		
- Additional toxicological in	tion possible through skin contact.	
The product shows the following	g dangers according to internally approved calculation methods for preparations:	
Irritant		
- Carcinogenic categori	es	
- IARC (International	Agency for Research on Cancer)	
None of the ingredients is listed.		
- NTP (National Toxi	cology Program)	
None of the ingredients is listed.		
- OSHA-Ca (Occupa	tional Safety & Health Administration)	
None of the ingredients is listed.		
2 Ecological information		

- Toxicity

- Aquatic toxicity: No further relevant information available.

- Persistence and degradability No further relevant information available.

- Behavior in environmental systems:

- Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:

- General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.

- Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods

- Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.

Transport information		
- UN-Number		
- DOT, ADN, IMDG, IATA	not regulated	
- UN proper shipping name		
- DOT, ADN, IMDG, IATA	not regulated	
- Transport hazard class(es)		
- DOT, ADN, IMDG, IATA		
- Class	not regulated	
- Packing group		
- DOT, ÎMDĜ, IATA	not regulated	
- Environmental hazards:	Not applicable.	
- Special precautions for user	Not applicable.	
- Transport in bulk according to Annex II of I	MARPOL73/78	
and the IBC Code	Not applicable.	
- UN "Model Regulation":	not regulated	
Regulatory information		

- Safety, health and environmental regulations/legislation specific for the substance or mixture - Sara

- Sara
 Section 355 (extremely hazardous substances):
None of the ingredients is listed.
- Section 313 (Specific toxic chemical listings):
Monofunctional acid ester
- TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.
- Hazardous Air Pollutants
None of the ingredients is listed.
- Proposition 65
- Chemicals known to cause cancer:
Neoprene polychloroprene
 Chemicals known to cause reproductive toxicity for females:
Neoprene polychloroprene
Monofunctional acid ester
 Chemicals known to cause reproductive toxicity for males:
Neoprene polychloroprene
Monofunctional acid ester
- Chemicals known to cause developmental toxicity:
Monofunctional acid ester
- Carcinogenic categories
- EPA (Environmental Protection Agency)
None of the ingredients is listed.
- TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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Reviewed on 05/20/2019

- Department issuing SDS: Infinity Bond Adhesives - Safety, Health and Environmental Affaires

Contact: Safety, Health and Environmental Affaires

- Date of preparation / last revision 05/20/2019 / 7
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

- vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit Flam. Lig. 4: Flammable liquids Category 4
- Acute Tox. 4: Acute toxicity Category 4 Acute Tox. 3: Acute toxicity Category 3 Skin Corr. 1C: Skin corrosion/irritation Category 1C
- Skin Irrit. 2: Skin corrosion/irritation Category 2 Eye Dam. 1: Serious eye damage/eye irritation Category 1
- Eye Irrit. 2A: Serious eye damage/eye irritation Category 2A Skin Sens. 1: Skin sensitisation Category 1
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3 - * Data compared to the previous version altered.

- Disclaimer

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