



**Safety Data Sheet
B9R-1-Cherry
Version 2**

Revision date: November 2015

1. COMPANY and PRODUCT IDENTIFICATION

B9Creations, LLC
525 University Loop, Suite 115
Rapid City, SD 57701
605-787-0771

Product Identification: Photopolymer Resin

In case of emergency call: CHEMTREC (800) 424-9300

2. HAZARDS IDENTIFICATION

A. EMERGENCY OVERVIEW

Color: Dark Red

Physical state: Liquid

Odor: Light acrylate

**** Classification of the MIXTURE or COMPONENTS present in the MIXTURE,
including GHS labeling**

Not a hazardous substance or mixture

Precautionary statement(s)

Prevention:
 P261 : Avoid breathing gas/mist/vapors/spray.
 P264 : Wash skin thoroughly after handling.
 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:
 P302 + P352 : IF ON SKIN (or hair) : Wash with plenty soap and water
 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.
 P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.
 P362 : Take off contaminated clothing and wash before reuse.
 P391 : Collect spillage

Disposal:
 P501 : Dispose of contents/ container to an approved waste disposal plant

Supplemental Information:

POTENTIAL HEALTH EFFECTS:

Effects due to processing releases: irritating to eyes, respiratory system and skin.
 Prolonged or repeated exposure may cause: headache, drowsiness, nausea, weakness
 (severity of effects depends on extent of exposure).

Other: this product may release fume and/or vapor of variable composition depending on processing time and temperature. Possible cross sensitization with other acrylates and methacrylates.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	Approximate % by weight	C.A.S. No	GHS Classification**
A. Methacrylated oligomers	Proprietary	Proprietary	Not classified
B. Methacrylate monomers	Proprietary	Proprietary	Not classified
C. Photoinitiator package	Proprietary	Proprietary	H303, H402

D. Pigment

Proprietary

Proprietary

H316

**** For the full text of H-statements, see Section 16**

4. FIRST AID MEASURES

General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

In case of skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Consult a physician.

In case of eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

If swallowed

Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth with water. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flash point: > 93°C / 200°F

Method: Setaflash

Ignition temperature: n.d

Lower explosion limit: n.d

Upper explosion limit: n.d

Extinguishing media: Use carbon dioxide or dry chemical for small fires; aqueous foam or water spray for large fires.

Special firefighting procedures: Firefighters should wear full protection clothing and self-contained breathing apparatus (SCBA). Thoroughly decontaminate firefighting equipment including all firefighting apparel after the incident.

Unusual Fire & Explosion: Emits irritating vapors. High temperatures, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerization generating heat/pressure and rupture/explosion of closed containers.

Hazardous products of combustion: nitrogen oxides (NO_x); hydrocarbons; carbon monoxide (CO); carbon dioxide; smoke; soot

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Remove ignition sources.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.
Normal measures for preventive fire protection.

Conditions for safe storage

Keep in a dry, cool place. Store in closed containers, in a secure area to prevent container damage and subsequent spillage. Store out of direct sunlight in a cool well-ventilated place. Keep stabilizer levels constant to avoid explosive polymerization. An air space is required above the liquid in all containers; avoid storage under an oxygen-free atmosphere.

Storage stability – Remarks:

Inhibitor levels should be maintained. The typical shelf-life for this product is 6 months.

Storage incompatibility – General:

Store separate from:

Strong oxidizing agents

Strong reducing agents

Free radical generators

Inert gas

Oxygen scavenger.

Peroxides

Temperature tolerance – Do not store below:–
32 °F (0 °C)

Temperature tolerance – Do not store above:
100 °F (38 °C)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Component	ACGIH TLV
1. Methacrylated oligomers	None
2. Methacrylated monomers	None
3. Photoinitiators	None

Notations:

TLV = Threshold Limit Value

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Avoid natural rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Wear chemical goggles, a face shield, and chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing immediately and wash before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling.

Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Have eye flushing equipment immediately available.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form dark red liquid

Safety data

pH	no data available
Melting point	no data available
Boiling point	no data available
Flash point	> 93°C / 200°F
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Density	1.10 – 1.12 g/cm ³ at 25 °C (77 °F)
Water solubility	no data available
Viscosity	240 - 300 cps at 25 °C (77 °F)

10. STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Conditions to avoid

No light exposure

Materials to avoid

Acids, Bases, Strong oxidizing agents

Hazardous polymerization

May occur

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: nitrogen oxides (NO_x); hydrocarbons; carbon monoxide (CO); carbon dioxide; smoke; soot

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

<p>1. Methacrylated oligomers</p>	<p>Practically nontoxic Oral: Acute toxicity estimate > 35,000 mg/kg.</p> <p>Dermal: Acute toxicity estimate > 2,000 mg/kg.</p>
<p>2. Methacrylated monomers</p>	<p>Practically nontoxic Oral: Acute toxicity estimate LD50 > 20,000 mg/kg.</p> <p>Skin Irritation: Not irritating. (rabbit) Draize Test 0 / 8. (24 h)</p> <p>Eye Irritation: Not irritating. (rabbit)</p> <p>Skin Sensitization: Guinea pig maximization test. (guinea pig) Weak skin sensitizer. No skin allergy observed.</p> <p>Genotoxicity</p> <p>Assessment in Vitro: No genetic changes were observed in a laboratory test using: bacteria</p>

Carcinogenicity

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

No data available

Potential health effects

Inhalation May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information: None

12. ECOLOGICAL INFORMATION

Ecotoxicology

Information given is based on data obtained from similar substances.

Aquatic toxicity data:

Practically nontoxic. *Danio rerio* (zebra fish) 96 h LC50 > 100 mg/l

Aquatic invertebrates:

Practically nontoxic. *Daphnia magna* (Water flea) 48 h EC50 >100 mg/l

Algae:

Practically nontoxic. *Pseudokirchneriella subcapitata* (green algae) 72 h ErC50 (Growth inhibition) > 100 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

US Department of Transportation (DOT)

Not regulated

International Maritime Dangerous Goods Code (IMDG)

Not regulated

IATA

Not regulated

15. REGULATORY INFORMATION

All components are in compliance with the following inventories: US TSCA, Canadian DSL, EU EINECS, Australian AICS, Korean, Phillipine PICCS, Chinese IECSC

REACH No. : A registration number is not available for this substance as the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986, (SARA) and 40 CFR 372 Part 372, this product does not contain chemicals at levels greater or equal to 0.1wt% subject to the reporting requirements under Section 313.

California Proposition 65: This product does not contain chemicals at levels greater or equal to 0.1wt% which are known to the state of California to cause birth defects or other reproductive harm.

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right To Know Components

No components are subject to the New Jersey Right to Know Act.

16. OTHER INFORMATION

H303 May be harmful if swallowed
H402 Harmful to aquatic life
H316 Causes mild skin irritation

Recommended use: FOR INDUSTRIAL USE ONLY.

IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY

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