

# DM Healthcare Products, Inc.

## Material Safety Data Sheet

SDS ID: H1350

Revised Date: 01/01/19  
Replaces Date: 08/01/17

### 1. GENERAL INFORMATION

Product Code: H1350  
Trade Name(s): Bisphenol A Glycerolate Methacrylate (BisGMA)  
Product Type: Dental Composite Resin  
Recommended Use:  
Restrictions: None identified

Company: DM Healthcare Products, Inc.  
10080 Willow Creek Rd.  
San Diego, CA 92131  
Telephone: 858-348-1122

Emergency phone number (spill, leak, fire, exposure or accident):  
US Domestic (800) 535-5053 (INFOTRAC) Includes Canada and Mexico  
International +1 (352) 323-3500  
China Specific (86) 400-120-0761  
Germany Specific (49) 0800-181-2924  
Australia Specific (61) 1-300-366-961

### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious eye damage (Category 1), H318  
Skin sensitization (Category 1), H317  
Carcinogenicity (Category 2), H351  
Reproductive toxicity (Category 2), H361  
Acute aquatic toxicity (Category 3), H402

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard Statement(s)

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H402	Harmful to aquatic life

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and

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P261 P272	understood Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Contaminated work clothing should not be allowed out of the workplace.
P273 P280	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352 P305 + P351 + P338 + P310	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P308 + P313 P333 + P313 P363	IF exposed or concerned: Get medical advice/ attention. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS – none.**

### 3. COMPOSITION INFORMATION

#### Substance

Formula: C<sub>29</sub>H<sub>36</sub>O<sub>8</sub>  
Molecular weight: 512.59 g/mol  
CAS-No.: 1565-94-2

#### Hazardous Components

Component	Classification	Concentration
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	Eye Dam. 1 H318	<=100%

#### Mequinol

Acute Tox. 4 Eye Irrit 2A	>= 1 - <5%
Skin Sens. 1. Repr. 2. Aquatic	
Acute 2. Aquatic Chronic 3;	
H302, H317, H319, H361,	
H401, H412.	

#### Hydroquinone

Acute Tox. 4; Eye Dam. 1;	>=0.1 - <1%
Skin Sens. 1; Muta. 2; Carc. 2;	
Aquatic Acute 1; Aquatic	
Chronic 1; H302, H317, H318,	
H341, H351, H410	

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### 4. FIRST AID MEASURES

#### Description of first aid measures

##### General Advice

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

##### If inhaled

Remove to fresh air. If breathing is difficult, give artificial respiration. Consult a physician.

##### In case of skin contact

Wash immediately with plenty of soap and water. Consult a physician

##### In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes or until the chemical has been removed. Obtain medical attention immediately.

##### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

##### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

##### Indication of any immediate medical attention and special treatment needed

No data available.

### 5. FIREFIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing media

Water, CO<sub>2</sub>, alcohol-resistant foam, dry chemical

##### Special hazards arising from the substance or mixture

No data available

##### Advice for firefighters

Fire fighters should wear NIOSH/MSHA approved pressure demand self-contained breathing apparatus.

##### Further information

No data available

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### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.  
For personal protection see Section 8.

#### Environmental precautions

Avoid runoff to waterways and sewers.

#### Methods and materials for containment and cleaning up

Promptly absorb spill. Remove sources of ignition. Cover drains to prevent entry into waterways. Wear personal protective equipment (clothing and gloves) when handling spilled materials. Keep in suitable, closed containers for disposal.  
Wear suitable protective equipment.

#### Reference to other sections

For disposal see Section 13.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.

#### Conditions for safe storage, including any incompatibilities

Keep away from heat, flame, spark and other sources of ignition.

To facilitate product transfer from original container, product may be heated to 60 °C for not more than 24 hours. Do not use direct steam or band heaters to heat product. Hot boxes or hot rooms are recommendable for heating the product.

Open and handle receptacle with care.  
Wear appropriate protective equipment when handling this material.

Light sensitive.  
Storage class (TRGS 510): Combustible liquids

#### Specific end uses(s)

Apart from the uses mentioned in Section 1 no other specific uses are stipulated.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

#### Components with workplace control parameters

Component	CAS #	Value	Control Parameters	Basis
Mequinol	150-76-5	TWA (skin)	5.0000 mg/m3	USA ACGIH Threshold Limit Values (TLV)
	Remarks:	Eye irritation Skin damage		
		TWA	5.0000 mg/m3	USA NIOSH Recommended Exposure Limits

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		PEL	5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
Hydroquinone	123-31-9	TWA	1.0000 mg/m3	USA ACGIH Threshold Limit Values (TLV)
				Eye irritation Eye damage Adopted values or notations enclosed are those for which changes are proposed in the NIC See Notice of Intended Changes (NIC) Confirmed animal carcinogen with unknown relevance to humans Sensitizer
		TWA	1 mg/m3	USA ACGIH Threshold Limit Values (TLV)
				Dermal Sensitization Eye irritation Eye damage 2015 Adoption Confirmed animal carcinogen with unknown relevance to humans
		TWA	2.00000 mg/m3	USA Occupation Exposure (OSHA) – Table 2 Z-1 Limits for Air Contaminants
		TWA	2 mg/m3	USA Occupation Exposure (OSHA) – Table 2 Z-1 Limits for Air Contaminants
		C	2.00000 mg/m3	USA NIOSH Recommended Exposure Limits
			15 minute ceiling value	
		PEL	2 mg/m3	California permissible exposure Limits for chemical contaminants (Title 8, Article 107)

Hazardous components without workplace control parameters

### Exposure Controls

#### Appropriate engineering controls

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

#### Personal Protective equipment

##### Eye/face protection

Safety glasses, goggles, or face shields are required. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

##### Skin protection

Handle with 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.

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### Body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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).

### Control of environment exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

a) Appearance Form:	liquid
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	110 °C (230 °F)
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	1.161 g/mL at 25 °C (77 °F)
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

### Other safety data

No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical Stability

Stable at recommended storage conditions.

### Possibility of hazardous reactions

No data available

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### Conditions to avoid

No data available

### Incompatible materials

Strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides  
Other decomposition products - No data available In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

### Information of toxicological effects

#### Acute toxicity

No data available

#### Inhalation:

No data available

#### Dermal:

No data available

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

No data available

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### Specific target organ toxicity - single exposure

No data available

### Specific target organ toxicity - repeated exposure

No data available

### Aspiration hazard

No data available

### Additional Information

RTECS: UD3438000

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

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence (Mequinol)

Liver - Irregularities - Based on Human Evidence (Hydroquinone)

## 12. ECOLOGICAL INFORMATION

### Toxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.

No data available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.



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### 14. TRANSPORT INFORMATION

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

### 15. REGULATORY INFORMATION

**SARA 302 Components**

The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Hydroquinone	123-31-9	2007-07-01

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Hydroquinone	123-31-9	2007-07-01

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	1565-94-2	
Mequinol	150-76-5	1994-04-01
Hydroquinone	123-31-9	2007-07-01

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bismethacrylate	1565-94-2	
Mequinol	150-76-5	1994-04-01

**CALIFORNIA PROPOSITION 65:**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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### 16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Muta.	Germ cell mutagenicity
Repr.	Reproductive toxicity
Skin Sens.	Skin sensitization

#### HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	1
Physical Hazard	0

NFPA Rating Health hazard:	2
Fire Hazard:	1
Reactivity Hazard:	0