

DM Healthcare Products, Inc.

Material Safety Data Sheet

SDS ID: H1349

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

1. GENERAL INFORMATION

Product Code: H1349
Trade Name(s): Triethyleneglycol Dimethacrylate
Product Type: Cosmetic Restorative Dental Materials 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)

Skin sensitization (Category 1), H317
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

WARNING

Hazard statement(s)

H317 May cause an allergic skin reaction.
H402 Harmful to aquatic life.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
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.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P501 Dispose of contents/ container to an approved waste disposal plant.

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Hazards not otherwise classified (HNOC) or not covered by GHS
Lachrymator.

3. COMPOSITION INFORMATION

Substance

Formula: C₁₄H₂₂O₆
Molecular weight: 286.32 g/mol
CAS-No.: 109-16-0
EC-No.: 203-652-6

Hazardous components

| Component | Classification | Concentration |
|---|--|---------------|
| 2, 2'-Ethylenedioxydiethyl dimethacrylate | Skin Sens. 1. Aquatic Acute 3 H317, H402 | <= 100% |

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

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

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

In case of skin contact

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

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes as a precaution.

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 2.2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available.

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5. FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see Section 8.

Environmental precautions

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

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..

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 2.2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

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

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).

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.

Full contact Material: butyl-rubber

Minimum layer thickness: 0.3 mm

Break through time: 480 min

Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 30 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves.

This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

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).

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Control of environmental 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 | Color: light yellow ester-like |
| 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 | 170 - 172 °C (338 - 342 °F) at 7 hPa (5 mmHg) - lit. |
| g) Flash point | 167 °C (333 °F) - closed cup |
| 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 | 1.092 g/mL at 25 °C (77 °F) |
| n) Water solubility | 3.6 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - soluble |
| o) Partition coefficient: | n-octanol/water log Pow: 2.3 |
| p) Auto-ignition temperature | 255 °C (491 °F) at 1,025 hPa (769 mmHg) |
| q) Decomposition temperature | No data available |
| r) Viscosity | 9.15 mm ² /s at 20 °C (68 °F) – |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |

Other safety information

No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions. Contains the following stabilizer(s): 2,6-Di-*tert*-butyl-4-methylphenol (>=300 - <=400 ppm)

Possibility of hazardous reactions

No data available

Conditions to avoid

May polymerize on exposure to light.

Incompatible materials

Strong bases, Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available

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11. TOXICOLOGICAL INFORMATION

Information of toxicological effects

Acute toxicity

LD50 Oral - Rat - 10,837 mg/kg

TDL_o Oral - Rat - 7,889 mg/kg

Inhalation: No data available

LD50 Dermal - Mouse - male - > 2,000 mg/kg

No data available

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 72 h
(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation
(OECD Test Guideline 405)

Respiratory or skin sensitization

Maximization Test - Guinea pig
Result: May cause sensitization by skin contact.

Germ cell mutagenicity

Hamster
Lungs
Result: negative

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

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

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Aspiration hazard

No data available

Additional Information Repeated dose toxicity Rat - male and female - Oral - NOAEL : 1,000 mg/kg toxicity
RTECS: OZ4100000

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - 16.4 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - 72.8 mg/l - 72 h
(OECD Test Guideline 201)

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d
Result: 85 % - Readily biodegradable
(OECD Test Guideline 301B)

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)

UN number: 3334 Class: 9

Proper shipping name: aviation regulated liquid, n.o.s. (2,2'-Ethylenedioxydiethyl dimethacrylate)

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG

Not dangerous goods

IATA

UN number: 3334 Class: 9 Packing group: III

Proper shipping name: Aviation regulated liquid, n.o.s. (2,2'-Ethylenedioxydiethyl dimethacrylate)

15. REGULATORY INFORMATION

SARA 302 EHS CHEMICALS:

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

SARA 313 CHEMICALS:

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 HAZARD CLASS:

No known SARA hazards

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

| | | |
|--|----------|---------------|
| 2,2'-Ethylenedioxydiethyl dimethacrylate | CAS-No. | Revision Date |
| | 109-16-0 | |

New Jersey Right To Know Components

| | | |
|--|----------|---------------|
| 2,2'-Ethylenedioxydiethyl dimethacrylate | CAS-No. | Revision Date |
| | 109-16-0 | |

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.

16. OTHER INFORMATION

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

| | |
|---------------|--------------------------------------|
| Aquatic Acute | Acute aquatic toxicity |
| H317 | May cause an allergic skin reaction. |
| H402 | Harmful to aquatic life. |
| Skin Sens. | Skin sensitization |

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HMIS Rating

| | |
|------------------------|---|
| Health hazard: | 0 |
| Chronic Health Hazard: | |
| Flammability: | 1 |
| Physical Hazard | 0 |

NFPA Rating

| | |
|--------------------|---|
| Health hazard: | 0 |
| Fire Hazard: | 1 |
| Reactivity Hazard: | 0 |

Further information

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