



MR. Dental Supplies Limited

4 MANOR WAY, OLD WOKING, SURREY, GU22 9JX, UK

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Material Safety Data Sheet

No:34

Company:	MR Dental Supplies Ltd 4 Manor Way Old Woking Surrey GU22 9JX England	Distributed by:	
Telephone:	+44 (0)1483 773282		
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1. **Commercial Product Name:** MEADWAY GLYCOL
1.2 **Chemical Characterisation:** ETHYLENE GLYCOL DIMETHACRYLATE

2. Composition and Information on Ingredients

2.1 Chemical Characterisation:

Ethylene Glycol Dimethacrylate	90.0% min
CAS Number	97-90-5
Einecs Number	202-617-2
UN Number	Not Classified
Hazard Class	Not Classified
Symbol	Xn-Harmful, Xi-Irritant
Risk Phrases	R20/21/22, 36/37
Safety Phrases	S26,36

3. Hazards Identification:

- 3.1 **Principal Hazard:** Polymerises in the presence of oxidants, light or on heating.
3.2 **Environmental Hazards:** No environmental hazards known.
3.3 **Human Health Hazard:** Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and respiratory system. Material can cause irritation, itching and soreness. Possible sensation effects. Could irritate throat and digestive tract if swallowed. Exposure to vapour in high concentration could cause irritation of the nose, throat and respiratory tract.

4. First-Aid Measures:

- 4.1 **Skin:** Wash affected area with plenty of water and soap if available for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation develops or persists.
4.2 **Eyes:** For eye contact, immediately flush eyes with running water for at least 15 minutes.
4.3 **Inhalation:** Remove victim to fresh air. If not breathing, clean airway and start artificial respiration (mouth to mouth, bag mask respirator). If having trouble breathing give supplemental oxygen. Obtain medical attention.
4.4 **Ingestion:** wash out mouth with water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical attention.
4.5 **Other first aid information:** treat symptomatically
4.6 **Note to a Physician:**

5. Fire Fighting Measures

- 5.1 **Extinguishing Media:** Extinguish with foam, dry chemical, CO2 or water spray or Halon. Keep containers and surroundings cool with water spray.
5.2 **Unsuitable Extinguishing Media:** Water Jet.
5.3 **Unusual fire fighting Hazards:** Burning will produce irritating and toxic fumes.
5.4 **Special Fire Fighting Procedures:** This product may give rise to hazardous fumes in a fire. Cool fire-exposed containers with water spray. Fire-fighters should wear self-contained breathing apparatus. Impervious clothing, rubber boots, rubber gloves.
5.5 **Other Recommendations:** Guard against static discharge
5.6 **Combustion Products:**

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Manufacturers of Meadway, Medi-Lux and V-Lux dental materials & products.
Also manufacturers of tooth-making equipment.
Registered in England No. 3299060



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6. Accidental Release Measures:
6.1 Personal Precautions: Avoid eye, skin and mouth contact.
6.2 Precautions to Protect the Environment: Prevent dispersion, do not allow quantities to enter drains or other bodies of water.
6.3 Clean up Procedures: Collect into Polythene or suitable container.

7. Handling and Storage:
7.1 Handling Precautions: Prevent dispersion, avoid eye, skin and mouth contact. Avoid inhaling. Use in well ventilated area. Emergency shower and eye wash facilities should be available. Keep containers vented to allow air to reach the material.
7.2 Storage: Keep in suitable containers in clean, cool dry area's out of direct sunlight.
7.3 Unsuitable Packaging Material:
7.4 Incompatibilities: Keep away from sources of ignition and heat.
7.5 Other Information: None known.

8. Exposure Controls and Personal Protection:
8.1 Exposure Controls: Use best practice only.
8.2 Engineering Control Measures: Methods to prevent or control exposure are preferred. Ensure continuous supply of air to product.
8.3 Personal Protective Equipment:
Respiratory: In case of insufficient ventilation, wear suitable respiratory equipment.
Hand: Neoprene or nitrile gloves.
Eye: Chemical goggles
Skin: Wear suitable protective clothing. Do not take contaminated clothing home to be laundered. Wash clothing separately before reuse.
Industrial hygiene: Wash after handling, especially before eating, drinking or smoking.

9. Physical and Chemical Properties
9.1 Appearance: Clear Liquid
9.2 Safety Related Information
Odour: Faint Acrylic
Melting Point/Melting Range: <-40°C
Boiling Point/Boiling Range: 97°C at 4mm Hg
Flash point: 98°C Open Cup
Specific Gravity: 1.051g/cm ³ at 20°C
Solubility in Fat: Soluble in MEK, THF, Aromatic and chlorinated hydrocarbons.
Flammability: Not considered flammable
Autoignition Temperature: N/A
Explosive Properties: N/A
Vapour Pressure: N/A
Solubility in Water: 0.19g in 100 ml at 20°C
Oil/Water partition coefficient: N/A
Evaporation rate (ethyl ether =1): <1
Partition Coefficient: N/A
Vapour Density (air=1) N/A
Viscosity: 3.2 cPs 20°C
Molecular Weight: 198.22

10. Stability and Reactivity:
10.1 Stability: Stable under normal conditions. Stabilised by addition of monomethyl ether of hydroquinone, hydroquinone or Topanol A. The inhibitors do not function in the absence of air.
10.2 Reactivity:
Conditions to Avoid: Keep away from heat, sparks, static electricity, light sources and oxidising agents.
Materials to Avoid: Nitrates, oxidants, peroxides, strong alkalis, free radical initiators and polymerisation catalysts.
Hazardous Decomposition Products: Combustion will generate oxides of carbon, carbon dioxide, carbon monoxide.

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11. Toxicological Information:

11.1 Possible Health Effects:

Acute Toxicity: Low order of toxicity, LD50 (oral-Rat) 12,600mg/Kg. Acute toxic effects are unlikely provided warnings regarding irritant effects are observed.

Skin: Has been seen.

Skin sensitisation: Allergic sensitisation should be considered possible.

Eyes: Single application to rabbit eye produced conjunctival irritation and corneal damage

Sub Acute/Sub chronic: Not evaluated:

12. Ecological Impact

Avoid subsoil penetration. Do not let product enter drains. Do not contaminate surface water, if released into atmosphere it will photodegrade by reaction with photolytically produced radicals. Material is sparingly soluble in water, will not bioaccumulate and is practically non-toxic to aquatic species.

13. Waste Disposal

13.1 Product Disposal: Dispose of in accordance with local and National regulations. Incineration is recommended in suitable combustion chamber.

13.2 Packaging Disposal: Dispose of in accordance with local and National regulations. Empty containers may have residues and must be cleaned prior to disposal by incineration.

14. Transport Information:

The product has not been classified as follows:

UN Number:	None
Land Road/Rain	Not Classified
Inland Waterway	Not Classified
Sea:	Not Classified
Air:	Not Classified
National Transport Regulations:	None Known

15. Regulatory Information:

15.1 EEC Supply Classification & Labelling: (67/548/EEC)

Label Name: EGDMA (Ethylene glycol Dimethacrylate)

Hazard Symbol: Xn-Harmful, Xi-Irritant

Risk Phrase: R20/21/22-Harmful by inhalation, in contact with skin and if swallowed.

R36/37-Irritating to eyes and respiratory system.

Safety Phrase: S26-In case of contact with eyes rinse with plenty of water and seek medical advice.

S36-Wear suitable protective clothing

Einecs Number: 200-617-2

EC annex I number: 607-114-00-5

FDA List Number: Not known

TSCA Listing: Yes

AICS Listing: Yes

WGK Rating: 1 (Voluntary Classification)

MITI Number: 2-1059

16. Other information:

This product safety data sheet was prepared in compliance with Commission Directive 93/112/EC, 67/548, and 88/379/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state scientific and technical knowledge at the date indicated on the present SDS. MR Dental Supplies Ltd shall not be held responsible for any defect in the product covered by this SDS should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

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This Material Safety Data Sheet has been compiled according to the principles outlined in EC Directive 91/155/EC. The information contained does not constitute the users own assessment of workplace risks as required by other Health and Safety legislation. No claim is made for completeness and all applicable laws and regulations have to be considered.

IMPORTANT: USE IN THE MANUFACTURE OF MEDICAL DEVICES AND RELATED PRODUCTS.

MR Dental has performed no clinical testing on the use of this product in any medical application. MR Dental has no data to support the use of this product in any medical application. This product has been manufactured to a specification according to high standards of manufacturing practice .MR Dental supplies this product on the specific understanding that it is the sole responsibility of the medical device manufacturer to ensure that the medical device is both safe and fit for the intended purpose and that this product is suitable for use in its manufacture.

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