



MR. Dental Supplies Limited

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Material Safety Data Sheet

No:31

Company:	MR Dental Supplies Ltd 4 Manor Way Old Woking Surrey GU22 9JX England	Distributed by:
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1. Commercial Product Name: Meadway Imperial High Impact Material
2. Chemical Characterisation: Rubber modified methacrylate polymer Hazardous Ingredient (s) Dibenzoyl peroxide % W/W <1: Cas No. 000094-36-0: EC No. 202-327-6: EC Classification E, Xi; R2 R36 R43

3. Hazards Identification:
Combustible but not readily ignited. May form explosible dust clouds in air. Low toxicity under normal conditions of handling and use. EC Classification: Not Classed as dangerous for Supply / Use

4. First-Aid Measures:
4.1 Eyes and Skin: Wash skin with water. If symptoms (irritation or blistering) occur obtain medical attention. After contact with eyes, remove particles by irrigating with eye wash or clean water, holding eyelids apart. Obtain medical attention.
4.2 Inhalation: Remove patient from exposure. Obtain medical attention if ill effects occur.
4.3 Ingestion: Wash out mouth with water. Do not induce vomiting. If patient feels unwell seek medical attention.

5. Fire Fighting Measures:	
5.1 Extinguishing Media:	
Suitable:	Foam, carbon dioxide CO2
5.2 Dust cloud characteristics:	Combustible but not readily ignited. Combustion or thermal decomposition will evolve toxic, irritant and flammable vapours. This product can form flammable dust clouds at elevated temperatures. The Minimum Ignition Temperature of a dust cloud of a similar polymer has been measured at approx. 480°C (IEC 1241-2-1)

6. Accidental Release Measures:
6.1 Caution – spillages may be slippery. Collect in containers for disposal using approved dust respirator.

7. Handling and Storage:
7.1 Store in original container in a cool dry place. Natural ventilation is adequate. Avoid spillages. Since the product is supplied as fine spherical beads, any spillages may cause floors to become extremely slippery. Avoid contact with eyes. Avoid prolonged skin contact. Unlikely to represent a dust hazard under normal handling conditions. Storage Temperatures: Ambient
7.2 Specific Uses: Manufacturing of Dentures. Not intended for thermal processing Process Hazards: This product is usually processed in conjunction with reactive monomers and this may require the use of a higher level of PPE than that necessary for the polymer itself. Please see the advice in section 8 and 11.

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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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Product Name: Meadway High Impact Material

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8. Exposure Controls and Personal Protection: General Guidance below

8.1 Personal Protective Equipment: Wear suitable protective clothing

8.1.1 Respiratory Protection: A suitable mask or dust respirator with filter type P-S OR FFP-S (EN143 or EN149) may be appropriate.

8.1.2 Hand Protection: Wear suitable gloves

8.1.3 Eye Protection: Safety spectacles / Full face shield.

8.2 Occupational Exposure Limits:

Hazardous Ingredient (s)	LTEL 8hr TWA	LTEL 8hr	TWA	STEL	STEL	Notes
	ppm	mg/m ³		ppm	mg/m ³	
Dibenzoyl peroxide	-	5		-	-	OES
Dust (total inhalation dust)	-	10		-	-	OES
Dust (respirable dust)	-	4		-	-	OES

9. Physical and Chemical Properties:

9.1 Physical Form:

White / Pink
powder

9.2 Odour:

Typically
methacrylate

9.3 Density:

1.1 - 1.18 g/cm³

Bulk Density:

600-750 kg/m³

9.4 Explosive properties:

Weakly to
moderately
explosive
negligible

9.5 Solubility in Water:

9.6 Melting Range:

150-230 °C

9.7 Flash point:

Approx. 390 °C

9.8 Decomposition Temperature:

~240 °C

9.9 Ignition Temperature:

Approx. °C
~465

10. Stability and Reactivity:

10.1 Hazardous Decomposition Products: Methacrylate Monomer, Dibenzoyl peroxide, carbon monoxide, carbon dioxide

10.2 Hazardous Reactions: None Known

11. Toxicological Information:

11.2 Inhalation: Unlikely to be hazardous by inhalation

11.3 Skin Contact: May cause sensitisation by skin contact. Unlikely to cause skin irritation. Contains greater than 0.1%

Residual (methyl methacrylate, dibenzoyl peroxide). During normal handling this not constitute a hazard. If polymer matrix is

Destroyed eg when the product is dissolved in organic solvent, chemical residues will be released from the polymer matrix.

Under these conditions, they may produce an allergic reaction in persons already sensitised.

11.4 Eye Contact: Dust may cause irritation

11.5 Ingestion: Low oral toxicity

11.6 Long Term Exposure: No information available

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12. Ecological Information:

12.1 Environmental Fate Distribution: Solid with low volatility. The product is essentially insoluble in water. The product has low potential for bioaccumulation. The product is predicted to have low mobility in soil

12.2 Persistence and Degradation: The product is non- biodegradable in soil. There is no evidence of degradation in soil and water

12.3 Toxicity: The product is predicted to have low toxicity to aquatic organisms

12.4 Effect on Effluent Treatment: The material is essentially insoluble in water and can therefore be separated from aqueous medium by sedimentation and filtration processes at an effluent treatment plant.

14. Transport Information:

Not Classified as Dangerous for Transportation.

15. Regulatory Information:

EC Classification: Not Classified as Dangerous for Supply/ Use

16. Other information:

The data sheet was prepared in accordance with Directive 2001/ 58/ EC.

The information in this document is given under good faith, but it is for Users to satisfy themselves of the suitability of the product for their own particular purpose. This data sheet contains important information to ensure the safe handling, storage and use of this product. The information in this document should be brought to the attention of the person in your organisation responsible for advising on safety matters.

Glossary:

OES: Occupational Exposure Standard (UK HSE EH40)

LTEL: Long Term Exposure Limit

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

Full text of R Phrases:

R2: Risk of explosion by shock, friction, fire or other sources of ignition

R36: Irritating to eyes

R43: May cause sensitisation by skin contact

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. s 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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