



# MR. Dental Supplies Limited

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

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## Material Safety Data Sheet

No:6

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 Special Tray Quick Dough Powder - Green

2. Chemical Characterisation: Methacrylate Polymer containing residual peroxide initiator

This product contains the following hazardous components:

Ingredient:	CAS No.:	EC No.:	Concentration by weight:	Classification and R Phrases:
Dibenzoyl peroxide	94-36-0	202-327-6	1%< Conc. <5%	E; O; Xi; R2, R7, R36, R43

### 3. Hazards Identification:

3.1 Principal Hazard: Dibenzoyl peroxide is an eye irritant and may cause skin sensitisation. The product should be regarded as a nuisance dust and Occupational Exposure should be maintained below 10 mg/m<sup>3</sup> (8 hour TWA). Under certain conditions, as with most organic powders and dusts, dust clouds may be ignited. Details of these properties are given in Sections 5.3 and 9.5.

### 4. First-Aid Measures:

4.1 Eyes and Skin: Wash skin in running water and mild soap. After contact with eyes, flush with water.

4.2 Inhalation: Polymethacrylates do not give off any noxious gases at ambient temperature. The product is supplied in powder form and precautions should be taken to minimise the exposure to airborne dust. See Section 8 for details of personal protective equipment.

4.3 Ingestion: Wash out mouth with water. Do not induce vomiting. Give water to drink. If patient feels unwell seek medical attention.

### 5. Fire Fighting Measures:

#### 5.1 Extinguishing Media:

Suitable: Foam, carbon dioxide

Not to be used: Water

#### 5.2 Special Exposure Hazards:

The following vapours may arise during fires:-

Methacrylate Monomer Vapours  
Carbon Monoxide

#### 5.3 Dust cloud characteristics:

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 Collect in containers for disposal using approved dust respirator.

### 7. Handling and Storage:

7.1 Store in original container in a cool dry place. Avoid spillages. Since the product is supplied as fine spherical beads, any spillages may cause floors to become extremely slippery.

### 8. Exposure Controls and Personal Protection:

#### 8.1 Personal Protective Equipment:

8.1.1 Respiratory Protection: Wear suitable respiratory equipment if exposure to high levels of dust are likely. Where an air-purifying respirator is needed please use equipment complying with EN143 (Type P-S) or EN 149 (Type FFP-S). See also Section 4.2 above.

8.1.2 Hand Protection: Wear suitable gloves

8.1.3 Eye Protection: Wear goggles.

8.2 Industrial Hygiene: Powders have a drying effect on the skin and the use of a barrier cream may reduce this effect.

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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: Special Tray Quick Dough Powder - Green

## 9. Physical and Chemical Properties:

Tested in Accordance with:

9.1 Physical Form:		Fine beads	
9.2 Colour:		White	
9.3 Odour:		mild	
9.4 Density:	( 20 °C)	1.1 - 1.18	g/cm <sup>3</sup>
9.5 Bulk Density:		ca. 550-750	kg/m <sup>3</sup>
9.6 Solubility in Water:	( °C)	Insoluble	g/l
9.7 Change in Physical State:			
Starts to soften at -		Approx. 150	°C
9.8 pH Value (at g/l H <sub>2</sub> O):		Unknown	g/l
9.9 Flash point: (value for PMMA)		390	°C
9.10 Ignition Temperature:		465 - 550	°C
9.11 Explosive properties: (based on a similar polymer)	K <sub>ST</sub>	91	bar.m.s <sup>-1</sup> (Weakly to moderately explosible)

## 10. Stability and Reactivity:

10.1 Thermal Decomposition: Polymer will decompose at temperatures over ca.240°C.

10.2 Hazardous Decomposition Products: Methacrylate Monomer Vapours

10.3 Hazardous Reactions: Will react with methacrylate monomers.

## 11. Toxicological Information: (data for Dibenzoyl peroxide)

Dibenzoyl peroxide has been classified (by its manufacturers), as a danger to water; Water Pollution Class 2. LD<sub>50</sub>, Oral (rat) >5000 mg/kg.

## 12. Ecological Information:

This polymer is non-volatile and insoluble so will accumulate in the ground. It is non-biodegradable in soil and is predicted to have low mobility with no evidence of degradation in soil or water. The product is predicted to have low toxicity to aquatic organisms. The material is insoluble in water and therefore be separated from aqueous medium by sedimentation and filtration processes at an effluent treatment plant

## 13. Disposal Considerations:

Dispose in accordance with local regulations.

## 14. Transport Considerations:

Polymethacrylates do not fall under the transportation classification for dangerous substances.

## 15. Regulatory Information:

15.1 Risk Phrases: R43 May cause sensitisation by skin contact	15.2 Safety Phrases: S22 Avoid breathing dust S37 Wear suitable gloves
15.3 Hazard Symbols Xi; Irritant (St Andrews Cross)	15.4 Warning Labels

## 16. Other Information

The base data for this MSDS is stored under MR Dental Ref No:6

There are changes in Sections, 1, 2, 3, 4, 5, 7, 9, 12,

The information in this document 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.

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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. 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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