



# MR. Dental Supplies Limited

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

+44 (0) 1483 773282 | info@mr dental.co.uk | www.mrdental.co.uk

## Material Safety Data Sheet

No:09

<b>Company:</b>	MR Dental Supplies Ltd 4 Manor Way Old Woking Surrey GU22 9JX England	<b>Distributed by:</b>	
<b>Telephone:</b>	+44 (0)1483 773282		
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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**PRODUCT NAME:** Meadway Universal Heatcure Clear Liquid  
**CAS- No:** 80-62-6  
**EU INDEX NO:** 607-035-00-6  
**Ec No:** 201-297-1  
**SYNONYMS, TRADE NAMES:** MMM, MMA, 2-Propenoic Acid, Stabilised Methyl Methacrylate Monomer, Methyl Ester  
**Emergency Contact Number: ( Office Hours)** +44 1483 773282  
  
**Emergency Contact Number; ( Outside Office Hours )** +447875299685  
  
**SDS No:** 09

### 2. HAZARDS IDENTIFICATION

**CLASSIFICATION (67/548)** F:R11 R43 Xi;R37/38

**CLASSIFICATION (EC 1272/2008)**

Physical	Flam. Liq. 2 – H225
Health	Skin Irrit. 2 - H315; Sin Sens. 1 – H317;STOT SE 3 – H335
Environmental	Not classified

**LABEL IN ACCORDANCE WITH (EC) NO: 1272/2008**



**3.1 Principal Hazard:** Highly flammable, irritating to eyes and skin. May cause sensitization by skin contact. Inhalation of high concentrations, may cause irritation and anaesthetic effects. Repeated or prolonged contact may cause dermatitis.

<b>Issue Number:</b>	2	<b>Date:</b>	April 2011	<b>Signed By:</b>		<b>Approved By:</b>	
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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 Universal Heatcure Clear Liquid

#### 4. First-Aid Measures:

**4.1 Eye Contact:** Symptom: Irritation. Treatment: Irrigate thoroughly with water for at least 10 minutes. Obtain immediate medical attention.

**4.2 Skin Contact:** Symptom: Irritation. Treatment: Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.

**4.3 Inhalation:** Symptom: Irritation of respiratory tract. Drowsiness. Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek immediate medical attention.

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

**4.5 Immediate Treatment / Antidote - Symptomatic Treatment**

#### 5. Fire Fighting Measures:

##### 5.1 Extinguishing Media:

**Suitable:** Water spray, foam, dry powder or carbon dioxide.

**Hazardous Combustion Products:** May polymerize on heating. Sealed containers may rupture explosively if hot

**Special Equipment for Fire Fighting:** Self contained breathing apparatus

#### 6. Accidental Release Measures:

**6.1 Clean Up Procedure -** Bund or absorb material with sand, earth or other suitable absorbent (Not sawdust or other combustible

Materials). Transfer liquid if possible to a salvage tank, otherwise absorb spillage and residues, transfer to suitable containers and hold for waste disposal.

**6.2 Safety Precautions -** Wear appropriate PPE

**6.3 Environmental Precautions -** Do not empty into drains

#### 7. Handling and Storage:

**7.1 Handling -** Ventilation should be good and general. LEV may be required. Avoid contact with skin and eyes. Avoid inhalation of high vapour concentrations.

**7.2 Storage -** Keep away from your face

**7.3 Temperature Range -** Cool

**7.4 Precautions against Static Discharge -** Suitable earthing and other precautionary measures required.

**7.5 Suitable Storage Media -** Material stored in bulk must be kept in contact with air (oxygen)

#### 8. Exposure Controls and Personal Protection:

**8.1 Exposure Limits:** 50 ppm (205 mg/m<sup>3</sup>), 8hr TWA; 110 ppm (410 mg/m<sup>3</sup>) STEL **Type:** OES

**8.1.1 Respiratory Protection:** Type approved RPE for organic vapours and mists if required. Self contained and breathing apparatus may be necessary at high vapour concentrations.

**8.1.2 Hand Protection:** Wear suitable gloves (Nitrile is better than PVC) Gloves should be changed regularly.

**8.1.3 Eye Protection:** Should wear goggles or full face shield

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

**8.2.1 Hygiene Measures:** Always wash thoroughly after handling chemicals.

**8.2.3 Skin Protection -** Wear overalls and gloves

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## 9. Physical and Chemical Properties:

Appearance	Clear Liquid
Colour	Colourless
Odour	Acrid
Solubility	Slightly soluble in water
Boiling Point (°C)	100.5
Relative Density	0.949 @ 15.5C
Vapour Pressure	3600 Pa @ 20C
Auto Ignition Temperature (°C)	421
Melting Point (°C)	- 48
Vapour Density (air=1)	3.5
Flash Point (°C)	10 CC ( Closed Cup)
Flammability Limit Upper (%)	12.5
Flammability Limit Lower (%)	2.1
Partition Coefficient (N-Octanol/Water)	1.38

## 10. Stability and Reactivity:

**10.1 Known Hazardous Reactions:** Susceptible to polymerisation initiated by prolonged heating or presence of a catalyst.

**10.2 Conditions to Avoid:** Heat and direct sunlight

**10.3 Materials to Avoid:** Peroxy compounds, azo compounds, strong acids, alkalis, oxidising agents.

**10.4 Hazardous Decomposition Products:** Does not decompose upto Autoignition temperature

## 11. Toxicological Information:

**Effects:** Irritating to eyes, skin and respiratory system. High concentrations of vapour may cause dizziness, headache and anaesthetic effects. Low oral toxicity, ingestion may result in irritation of the gastrointestinal tract. Repeated exposure to high levels produces adverse effects on the heart, lungs, liver and kidneys. There is no reason to believe the product represents carcinogenic, mutagenic or reproductive effects.

## 12. Ecological Information:

**12.1 Environmental Effects** – The product is substantially removed in biological treatment processes.

**12.2 Mobility** – Liquid with moderate volatility, sparingly soluble in water. Predicted to have high mobility in soil.

**12.3 Degradability** – Partially biodegradable in water, BOD = 0.14 – 0.19 g/g

**12.4 Bioaccumulative Potential** – Low

**12.5 Aquatic Toxicity** – Harmful to fish, LC50, fathead minnow, 96h = 130 mg/l

## 13. Disposal Information:

**13.1 Substance** – Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

**13.2 Container** – As substance. Used containers must not be cut up or punctured until completely purged of product residues.

## 14. Transport Information:

**UN Number** – 1247

**Class / Item No** – 3 , 3b

**Primary Hazard** – Flammable Liquid

**Emergency Action Code** – 3 (Y) E

**Packing Group** – II

**H.I.Number**- 339

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<b>15. Regulatory Information:</b>	
<b>15.1 Risk Phrases:</b> 11 – 36/37/38 – 43/ Highly flammable. Irritating to eyes, skin and respiratory system. May cause sensitisation by skin contact.	<b>15.2 Safety Phrases:</b> 9 –16-29-33. Keep container in a well ventilated place. Do not empty into drains. Take precautionary measures against static discharges.
<b>15.3 Hazard Symbols:</b> Highly flammable and irritant.	<b>15.4 Supply Label Details:</b> Ref. CHIP `96
<b>15.5 Label Name:</b> Methyl Methacrylate	<b>15.6 E.E.C.No</b> – 201 – 297 – 1

<b>16. Other information:</b> The base data for this msds is stored under MR Dental Reference: No.9 There are changes in Sections 1,2,3,4,5,7,8,9,11,12,13, and 16 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.
<b>16.1 Legal Disclaimer:</b> The above information is based on the present state of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his/her purpose.

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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