



# MR. Dental Supplies Limited

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

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## Material Safety Data Sheet

## No:17

|                   |  |                        |  |
|-------------------|--|------------------------|--|
| <b>Company:</b>   | MR Dental Supplies Ltd<br>4 Manor Way<br>Old Woking<br>Surrey<br>GU22 9JX<br>England | <b>Distributed by:</b> |  |
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### 2. Commercial Product Name: Meadway Heatcure Soft Liquid Clear

**2.1 Chemical Characterisation:** Preparation containing acrylic monomers and plasticisers. Information on ingredients is given below.

| Ingredient                     | CAS No.   | EC No.    | Concentration by weight | Classification and R Phrases |
|--------------------------------|-----------|-----------|-------------------------|------------------------------|
| Diocetyl maleate               | 142-15-5  | 205-524-5 | 40-60%                  | Unclassified                 |
| 2-ethoxyethyl methacrylate     | 2370-63-0 | 219-135-3 | 40-60%                  | Xn; R37, 62, 63              |
| Ethylene glycol dimethacrylate | 97-90-5   | 202-617-2 | <10%                    | Xi, R36/37                   |

### 3. Hazards Identification:

**3.1 Principal Hazard:** This product contains 2-ethoxyethyl methacrylate which may hydrolyse in the body to 2-ethoxyethanol, which has adverse effects on the kidneys, liver and reproductive system in experimental animals. 2EEM is mildly irritating to the skin and eyes. Prolonged inhalation may lead to dizziness and unconsciousness. This product is not specifically listed by HSE/ACGIH with respect to its Occupational Exposure Limit (OEL), but our recommendation is that exposure should be maintained below the OEL for 2-ethoxy ethanol which is 5 ppm.

### 4. First-Aid Measures:

**4.1 Eyes and Skin:** Flush with copious volumes of water. Seek medical attention.

**4.2 Inhalation:** Remove to fresh air. Apply artificial respiration if necessary. Seek medical attention.

**4.3 Ingestion:** Do not induce vomiting. Seek medical attention immediately.

### 5. Fire Fighting Measures:

**5.1 Extinguishing Media Suitable:** Dry Powder, Carbon Dioxide

**Not to be used:** Water

**5.2 Special Exposure Hazards:** The following vapours may arise during fires:-

- Methacrylate Monomer Vapours
- Carbon monoxide and dioxide

### 6. Accidental Release Measures:

**6.1** Spillages should be cleaned immediately with suitable absorbent material, E.g. Sand or Fullers earth and disposed of in accordance with local regulations. Do not allow spillages to enter drains. Ensure that personal protective equipment is worn as advised in **Section 8**.

### 7. Handling and Storage:

**7.1** Store in well ventilated areas.

### 8. Exposure Controls and Personal Protection:

#### 8.1 Personal Protective Equipment:

**8.1.1 Respiratory Protection:** Wear suitable respiratory equipment if exposure to levels above the OEL is likely. Selection of suitable equipment should be based on intended use and an assessment of performance data. Where an air purifying filter is necessary, it should conform to Type A (EN141 or EN405). Check with the protective equipment manufacturers.

**8.1.2 Hand Protection:** Rubber Gloves

**8.1.3 Eye Protection:** Goggles

**8.2 Industrial Hygiene:** Barrier creams should be used routinely by all personnel using solvent based products.

|                      |   |              |            |                   |  |                     |  |
|----------------------|---|--------------|------------|-------------------|--|---------------------|--|
| <b>Issue Number:</b> | 2 | <b>Date:</b> | April 2011 | <b>Signed By:</b> |  | <b>Approved By:</b> |  |
|----------------------|---|--------------|------------|-------------------|--|---------------------|--|

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 Heatcure Soft Liquid Clear

Tested in Accordance with:

## 9. Physical and Chemical Properties:

|   |          |             |                   |
|---|----------|-------------|-------------------|
| 9.1 Physical State:                     |          | Liquid      |                   |
| 9.2 Colour:                             |          | Colourless  |                   |
| 9.3 Odour:                              |          | Fruity      |                   |
| 9.4 Density:                            | ( 20 °C) | ca.0.95     | g/cm <sup>3</sup> |
| 9.5 Vapour Pressure (2EEM):             | ( 20 °C) | Approx. 1.5 | mbar              |
| 9.6 Solubility in Water (2EEM):         | ( °C)    | Approx. 10  | g/l               |
| 9.7 pH Value (at g/l H <sub>2</sub> O): | ( °C)    |             | g/l               |
| 9.8 Flash point:                        |          | >70         | °C                |
| 9.9 Ignition Temperature:               |          | Approx. 200 | °C                |
| 9.10 Explosion Limits:                  | Lower:   | %           |                   |
|   | Upper:   | %           |                   |

## 10. Stability and Reactivity:

10.1 Thermal Decomposition: Stable up to boiling point

10.2 Hazardous Decomposition Products: May hydrolyse in the body to 2-ethoxyethanol which has adverse effects on the kidneys, liver and reproductive systems in experimental animals

10.3 Hazardous Reactions: Avoid contact with polymerisation catalysts, strong acids/alkalis and oxidising agents

## 11. Toxicological Information:

2EEM is not listed by HSE or ACGIH. It is suggested that exposure is maintained below the OEL for 2-ethoxyethanol which is listed by HSE/ACGIH at 5ppm. Details on first-aid measures are given in Section 4.

## 12. Ecological Information:

## 13. Disposal Considerations:

This product and its container must be disposed of in accordance with local or national regulations. Preferred disposal is by controlled incineration.

## 14. Transport Considerations:

Proper shipping name: GGVSee/IMDG: UN Number: ICAO/IATA-DGR: RID/ADR:  
This product is not regulated for transport

## 15. Regulatory Information:

### 15.1 Risk Phrases:

R37 Irritating to respiratory system  
R62 Possible risk of impaired fertility  
R63 Possible risk of harm to the unborn child

### 15.2 Safety Phrases:

S23 Do not breathe vapours or mist  
S24/25 Avoid contact with skin and eyes  
S28 After contact with skin wash with plenty of water  
S37 Wear suitable gloves

### 15.3 Hazard Symbols:

Xn (Harmful)

### 15.4 Warning Labels:

None

## 16. Other Information:

The base data for this MSDS is stored in MR Dental Ref No:17. There are changes in Section 8. 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.

Issue Number: 2 Date: April 2011 Signed By: Approved By:



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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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