

In Case of Emergency call 928-242-1308

## **BCM-1 Bald Cap Material**

### **Overview**

The Bald Cap Material is a polyurethane blend suspended in acetone. The material has been used for a number of years as a medical modelling material for the creation of encapsulant skins and so provides a good strong, elastic surface when used for the creation of Bald Caps.

The material is used by painting layers onto a standard head former. By painting less material, very fine edges can be produced. **The standard material has been designed to be used straight from the bottle with no ‘thinning’ necessary. If using thick suspension thin down to desired consistency using acetone.**

The material contains no toxic PVC or phthalate plasticizers and has been independently dermatologically tested for skin contact.

### **User Instructions**

Apply a thin layer of Vaseline to the surface of the head former

If desired the Bald Cap Material may be coloured with the addition of appliance foundation.

Paint Bald Cap Material thinly onto surface of former and allow acetone to flash off leaving a thin layer of polyurethane. Allow at least 10mins drying time between layers.

Repeat above step enough times to build up appropriate thickness – more layers will result in a thicker/stronger Bald Cap (suitable for the main crown of the head) while painting less layers will allow the creation of thin edges.

**Generally, approx 5-10 layers will suffice for the main part of the Cap reducing down to 1-2 layers at the fine edges.**

Powdering between layers will decrease elasticity resulting in a stronger Bald Cap.

Allow at least 2 hrs for acetone to completely flash off before removing the Cap from the former.

The Bald Cap should be removed from the former using a soft brush and plenty of talc (make sure to talc outside of Cap first).

Finished Bald Caps should be kept on a powdered former to retain shape prior to use.

Fine edges of Capskin can be dissolved safely on the skin with acetone.





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**If using thick suspension thin down to desired consistency using acetone.**



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## 1. Identification of Substance & Company:

|                                 |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Product Name(s)                 | Bald Cap Material                                                                                       |
| Product Code(s)                 | S602                                                                                                    |
| Medical Device Class            | Class I (according to Annex IX of EC Directive 93/42/EEC)                                               |
| Product Category/Classification | G5 (according to Annex IX of EC Directive 93/42/EEC)                                                    |
| Main Use                        | Manufacture (coating) of custom prostheses and creation of Bald Caps                                    |
| Company                         | Principality Medical Limited<br>Western Valley Road<br>Rogerstone, Newport<br>South Wales, UK. NP10 9DS |
| Tel                             | (44) (0) 1633 895994                                                                                    |
| Fax                             | (44) (0) 1633 896588                                                                                    |
| Document Version                | 1                                                                                                       |
| Print Date                      | 03/06/2004                                                                                              |

**NOTE: Data presented in this information sheet is based on use in 'wet' state – ie, before solvent (acetone) has been allowed to flash off. Once this process is complete, the remaining polyurethane polymer is inert and harmless unless burned, which will then liberate fumes and smoke.**

## 2. Composition / Information on ingredients:

|                      |                                                                           |
|----------------------|---------------------------------------------------------------------------|
| Chemical Nature      | Dispersion of dissolved polymer in organic solvent                        |
| Hazardous Components | Acetone (synonyms: dimethyl ketone, 2-propanone)<br>33% acetone by wight! |

## 3. Hazards Identification:

Critical Hazards



In 'wet' state: highly flammable, irritating to eyes, vapors may cause drowsiness/dizziness

## 4. First Aid Measures:

|                      |                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------|
| Eye Contact          | Irrigate with water for 15 mins, holding eyelid open, seek medical advise if irritation persists       |
| Skin Contact         | Remove excess and drench with water. Remove contaminated clothing                                      |
| Inhalation of Vapour | Remove from exposure, and rest. In severe case, or if exposure is great/prolonged, seek medical advise |
| Ingestion            | Drink plenty of water - seek medical advise                                                            |

## 5. Fire Fighting Measures:

|                              |                                                                                |
|------------------------------|--------------------------------------------------------------------------------|
| Hazards during fire fighting | Highly flammable. Dense vapour/air mixture explosive. Vapour heavier than air. |
|------------------------------|--------------------------------------------------------------------------------|



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Suitable extinguishing media

Water, foam, carbon dioxide or dry powder. Cool container with water at distance

### 6. Accidental Release Measures:

Personal Protection

Refer to Section 8

Environmental Precautions

Shut off all sources of ignition. Do not wash away into any drain unless it drains into a suitable effluent treatment process

Methods for clean-up

Soak up with an inert absorbent (eg, sand) and dispose as Section 13

### 7. Handling & Storage:

Handling

Work in well ventilated area. Do not use plastic containers.

Observe good housekeeping practises (HSE guidance note CS17)

Storage

Store between 15 deg C and 25 deg C in chemical storage cabinet. Keep drum lid well sealed to avoid flash off of solvent

### 8. Exposure Controls / Personal Protection:

General Protective Measures

Well ventilated work area to prevent build up of fumes

Components with workplace parameters

OES Acetone[long term: 500 ppm, short term 1,500 ppm (IOELV)]

Respiratory Protection

Mask if spraying

Hand Protection

Gloves recommended

Eye Protection

Eye glasses recommended

Other Precautions

Apron, sleeves, boots recommended if handling large quantities

Hygiene Measures

Do not eat, drink or smoke when handling product

### 9. Physical & Chemical Properties:

Physical Form

Thick, viscous liquid

Colour

Amber

Odour

Characteristic

Flash Point

< -20 deg C

Explosion limits

lower: 2.6% v/v, upper: 13% v/v

Vapour pressure

233 hPa (20 deg C)

Auto ignition temperature

380 deg C

pH

Approx 5.0 – 6.0 (400 g/l, water, 20 deg C)

Boiling temperature

Approx 56 deg C

### 10. Stability & Reactivity:

The product is stable under normal storage conditions (refer to Section 7)

Incompatible materials

Oxidising agents. The possibility of reaction with other substances cannot be excluded



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**11. Toxicological Information:**

Treat as if acetone

|                    |                                                                                                      |
|--------------------|------------------------------------------------------------------------------------------------------|
| After inhalation   | Mucosal irritation. In high doses, headache, salivation, nausea, vomiting, dizziness, narcosis, coma |
| After skin contact | Degreasing effect on skin, possibly followed by secondary inflammation                               |
| After eye contact  | Risk of corneal clouding                                                                             |
| After ingestion    | gastrointestinal complaints                                                                          |
| Odour threshold    | approx 13 ppm                                                                                        |

We have no evidence of carcinogenic, mutagenic or teratogenic effects

**12. Ecological Information:**

|                           |                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------|
| Degradation/elimination   | Good                                                                                                  |
| Bioaccumulation potential | Low                                                                                                   |
| Ecotoxic effects          | This product is not classified as Dangerous to the Environment when handled and disposed of carefully |

**13. Disposal Considerations:**

Waste product should not be discharged directly into drains or waterways.  
Disposal of product and packaging should always comply with local and national regulations

|                      |                                |
|----------------------|--------------------------------|
| EU waste code number | No Waste Code Number available |
|----------------------|--------------------------------|

**14. Transport Information:**

Transport as if Acetone

|                       |                |
|-----------------------|----------------|
| UN-no                 | 1090 – ACETONE |
| Class                 | 3              |
| Packaging group       | II             |
| UK Transport category | 2              |

**15. Regulatory Information:**

Treat as if Acetone

|           |                                                                                                                                                                  |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symbol    | F Xi Highly Flammable. Irritant                                                                                                                                  |
| R-Phrases | R11-36-66-67. Highly flammable, irritating to eyes, repeated exposure may cause skin dryness/cracking, vapours may cause drowsiness                              |
| S-Phrases | S9-16-26. Keep in well ventilated place, keep away from sources of ignition, no smoking, in case of contact with eyes, rinse immediately and seek medical advise |





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EC no

200-662-2

**16. Other Information:**

All information given in this Health & Safety Data Sheet is to the best of our knowledge true and accurate and is provided solely for making safety assessments. It is not a sales specification or an indication of suitability for a particular use nor does it replace the need for your own risk assessment.

All information presented in accordance with EC Directive 2001/58/EC and is correct at date of publication and is given in good faith but without warranty.

We cannot accept liability for any loss, damage or patent infringement resulting from the use of this information.

As with all materials, care should be exercised when handling.



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