

Bald Cap Material (S602) [Page 1 of 1]

Overview

Principality FX 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.

The surface can be painted with Procolour paints.

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 S604 Fine Edge Dissolver.

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

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1. Identification of Substance & Company:


Product Name(s)	Principality FX 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	MBI (Wales) Ltd 5 York Park Bridgend South Wales, UK. CF31 3TB
Tel	(44) (0) 1656 768566
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Document Version	2
Print Date	27/04/2016

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-propenone)

3. Hazards Identification:

Critical Hazards	 In 'wet' state: highly flammable, irritating to eyes, vapours may cause drowsiness/dizziness
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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 firefighting	Highly flammable. Dense vapour/air mixture explosive. Vapour heavier than air.
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

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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

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

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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 advice

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.