
MATERIAL SAFETY DATA SHEET**CASTING BANDAGES – WITHOUT FIBREGLASS****MSDS No. 176**

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product**Product Name****CASTING BANDAGES – WITHOUT FIBREGLASS****Other Names**

- DELTA-CAST ELITE
- DELTA-CAST PRINTS
- DELTA-CAST SOFT

Manufacturer's Product Code

Various

Use

Synthetic orthopaedic casting material. Provides rigid or semi-rigid external immobilisation for fractures and other orthopaedic conditions.

Supplier**Company**

Smith & Nephew Pty. Limited

Address

315 Ferntree Gully Road, Mount Waverley, Victoria 3149

Telephone No.Customer Service:
(03) 8540 6777 (Toll Free 13 13 60)**Emergency Tel. Nos.**

(03) 8540 6777 (business hours)

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

Hazards Overview**Before Cure:** Contains a water-activated polyurethane resin with isocyanate end groups. May cause skin sensitisation.**After Cure:** The process to remove the bandage may form dusts, containing cured isocyanate material, which may cause a reaction in sensitised individuals.**Note:** Dust levels released from non-fibreglass casting material are significantly lower than from fibreglass casting material.**Risk Phrases**

The labelling required if handled in the workplace as a Workplace Hazardous Substance is:

Hazard Category: IRRITANT (Sensitiser)

R43 May cause sensitisation by skin contact.

Safety Phrases

S24/25 - Avoid contact with skin and eyes.

S37 - Wear suitable gloves.

S26 - In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

S28 - After contact with skin, wipe off, then wash immediately with plenty of soap and water.

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SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<i>Product / component</i>	<i>CAS No.</i>
DELTA-CAST ELITE / DELTA-CAST PRINTS:	
4,4'-Diphenylmethane diisocyanate-Polypropylene glycol polymer	9048-57-1
Diphenylmethane diisocyanate (M.D.I.)	26447-40-5
Diphenylmethane diisocyanate homopolymer	39310-05-9
Dimorpholinodiethylether (DMDEE Catalyst 2.2)	6425-39-4
Polypropylene Oxide	75-56-9
Benzoyl Chloride	100-44-7
Butylated Hydroxytoluene	128-37-0
Fumed Silica	67762-90-7
Polyurethane prepolymer	N/A
Polyester	N/A
DELTA-CAST SOFT:	
4,4'-Diphenylmethane diisocyanate-Polypropylene glycol polymer	9048-57-1
Diphenylmethane diisocyanate homopolymer	39310-05-9
Diphenylmethane diisocyanate (M.D.I.)	26447-40-5
Dimorpholinodiethylether (DMDEE Catalyst 2.2)	6425-39-4
Polypropylene Oxide	75-56-9
Fumed Silica	67762-90-7
Polyester substrate	N/A
Colouration	N/A

SECTION 4 – FIRST AID MEASURES

Swallowed	Do not induce vomiting. Seek immediate medical attention.
Eye	Rinse eye with clean water for 15 minutes, whilst lifting eyelid. Seek medical attention if effects persist.
Skin	Wash thoroughly with warm soapy water. Seek medical attention if irritation persists.
Inhaled	Move individual to fresh air. Give oxygen in the event of breathing difficulty. Seek medical attention if effects persist.
First-Aid Facilities	Eye wash plus normal washroom facilities nearby.
Advice to Doctor	Treat symptomatically. May cause respiratory sensitisation or asthma-like symptoms.

SECTION 5 – FIRE FIGHTING MEASURES

Hazards From Combustion Products	The product is not readily combustible but will burn under fire conditions and gives off toxic fumes, mainly carbon monoxide and carbon dioxide and with a possibility of hydrogen cyanide and nitrogen oxides (dependent upon combustion conditions).
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SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Effects**Swallowed**

Not a likely route of exposure. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Single dose oral toxicity for MDI is considered to be low. The oral LD50 for rats is >2000mg/kg. For DMDEE, the LD50 (rats) is 2025 mg/kg.

Eye

The unset resin system is potentially an irritant in direct contact with eyes. May cause very slight, temporary corneal damage. The resin vapour level at room temperature will not be sufficient cause any health problems.

Skin

The unset resin system may cause skin sensitisation. It is potentially irritant in direct contact with skin. May stick to skin and cause irritation on removal. Prolonged skin contact or repeated exposure symptoms may include redness and a rash.

The LD50 for skin absorption in rabbits is >200mg/kg.

For DMDEE, dermal toxicity (LD50) in rabbits is 3058 mg/kg.

There is equivocal evidence from animal studies that respiratory sensitisation can be provoked through repeated skin contact with diisocyanates.

Inhaled

Before Cure: At temperatures higher than recommended (greater than 50°C), isocyanate-containing fumes may be generated. At room temperatures, vapours are minimal. May cause sensitisation by inhalation. Very low concentrations may cause asthmatic signs and symptoms in hypersensitive people. Short-term effects of exposures above the exposure standard may include breathing difficulties and sensitisation.

After Cure: Removal of casts using oscillating saws causes a potentially irritant dust, from the set isocyanate resin, to be released into the atmosphere.

NOTE: Dust levels released from non-fibreglass casting material are significantly lower than from fibreglass casting material.

Chronic Effects

Chronic or repeated exposure may cause skin irritation and sensitisation.

Other Data

Carcinogenicity of MDI – industrial experience in humans has not shown any links between exposure to MDI-based products and cancer development.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Issues

The material is not considered to be dangerous to aquatic organisms.

Persistence & Degradability

In aqueous media, formation of insoluble and chemically inert polyureas will occur. No appreciable volatilisation from water to air is expected.

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Mobility Movement in the environment is expected to be limited due to the formation of insoluble polymers.

SECTION 13 – DISPOSAL CONSIDERATIONS

Method of Disposal In accordance with local waste regulations. Hardened cast material is not classified as a hazardous waste. Allow to cure and then send to standard industrial landfill. May be incinerated in an approved facility. Used product to be disposed of in accordance with the local authority's infectious waste requirements.

SECTION 14 – TRANSPORT INFORMATION

Classification Not classified as a Dangerous Good according to the Australian Code for Transport of Dangerous Goods by Road and Rail.

UN No. Not applicable.

Class Not applicable.

Subsidiary Risk(s) Not applicable.

Packing Group Not applicable.

Hazchem Code Not applicable.

Shipping Name Not applicable.

Other Not applicable.

SECTION 15 – REGULATORY INFORMATION

Poison Schedule Not a Scheduled Poison.

SECTION 16 – OTHER INFORMATION

CONTACT POINT :	CUSTOMER SERVICE	Telephone: (03) 8540 6777
Date of Issue:	12/04/2012	
<p>This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.</p>		

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