

JOHNSON & JOHNSON HOSPITAL SERVICES INC -- DELTA-LITE FIBREGLASS CASTING TAPE --  
6510-01-196-6204

===== Product Identification =====

Product ID:DELTA-LITE FIBREGLASS CASTING TAPE

MSDS Date:01/01/1987

FSC:6510

NIIN:01-196-6204

MSDS Number: BHYDR

=== Responsible Party ===

Company Name:JOHNSON & JOHNSON HOSPITAL SERVICES INC

Address:501 GEORGE STREET

City:NEW BRUNSWICK

State:NJ

ZIP:08903

Country:US

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Info Phone Num:800-526-2459

Emergency Phone Num:800-526-2459

CAGE:79717

=== Contractor Identification ===

Company Name:JOHNSON & JOHNSON HOSPITAL SERVICES INC.

Address:501 GEORGE STREET

Box:4000

City:NEW BRUNSWICK

State:NJ

ZIP:08903

Country:US

Phone:800-255-2500

CAGE:79717

===== Composition/Information on Ingredients =====

Ingred Name:POLYPROPYLENE POLYOL DIPHENYL METHANE DIISOCYANATE  
PREPOLYMER

CAS:9048-57-1

Fraction by Wt: 31-34%

Other REC Limits:NONE SPECIFIED

Ingred N

ame:METHYLENE BISPHENYL ISOCYANATE (MDI) (SARA III)

CAS:101-68-8

RTECS #:NQ9350000

Fraction by Wt: 5-8%

Other REC Limits:NONE SPECIFIED

OSHA PEL:C, 0.02 PPM

ACGIH TLV:0.005 PPM; 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:ALUMINUM (SARA III)

CAS:7429-90-5

RTECS #:BD0330000

Fraction by Wt: 5%

Other REC Limits:NONE SPECIFIED

OSHA PEL:15MG/M3 DUST/5 FUME

ACGIH TLV:10MG/M3 DUST; 9192

Ingred Name:FIBERGLASS

Fraction by Wt: 54%

Other REC Limits:NONE SPECIFIED

OSHA PEL:15 MG/M3(TOTAL DUST)

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CGIH TLV:10 MG/M3 (DUST)

Ingred Name:POLYETHYLENE AS A COPOLYMER

Fraction by Wt: 2%

Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES: CURING OF PREPOLYMER AND CAST

REMOV MAY CAUSE EYE AND SKIN IRRITATION. HEATING BEFORE CURING MAY  
RELEASE ISOCYAN

AT VAPORS WHICH MAY CAUSE RESPIRATORY TRACT

IRRITATION. INGESTION MAY CAUSE IRRITATION WITH POSSIBLE CORROSIVE  
ACTION. EXCESSIVE EXPOSURE TO VAPORS MAY CAUSE PULMONARY EDEMA AND  
MAY BE DELAYED.

Effects of Overexposure:REDNESS, SMARTING, TEARING & SWELLING OF THE

EYE. DRYNESS & CRACKING OF THE SKIN. VOMITING FROM INGESTION.

INGESTION OF THE CAST MATERIAL MAY CAUSE PHYSICAL BLOCKAGE OF THE  
GI TRACT.

Medical Cond Aggravated by Exposure:PEOPLE WITH CHRONIC DISEASES OF THE

SKIN MAY BE AT INCREASED RISK WHEN EXPOSED TO THIS MATERIAL.

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===== First Aid Measures =====

First Aid:INHALATION: MOVE PERSON TO FRESH AIR.RESTORE BREATHING. TREAT SYMPTOMATICALLY. GET MEDICAL HELP. EYES: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL TREATMENT. SKI N: WASH AFFECTED SKIN AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. CONSULT A PHYSICIAN FOR ALLERGIC SKIN REACTION.INGESTION : DO NOT INDUCE VOMITING: GET IMMEDIATE MEDICAL ATTENTION.

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===== Fire Fighting Measures =====

Flash Point Method:PMCC  
Flash Point:>350F,>177C  
Autoignition Temp:Autoignition Temp Text:NONE  
Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.  
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCB & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE.  
Unusual Fire/Explosion Hazard:FIRES CAN RELEASE NITROGEN OXIDES AND ISOCYANATE VAPORS.

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===== Accidental Release Measures =====

Spill Release Procedures:EXPOSED PREPOLYMER WILL REACT WITH AMBIENT MOISTURE AND POLYMERIZE (HARDEN). A DILUTE AMMONIA SOLUTION (10%) WILL NEUTRALIZE UNREACTED PREPOLYMER.  
Neutralizing Agent:10% AMMONIA SOLUTION

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===== Handling and Storage =====

Handling and Storage Precautions:STORAGE TEMPERATURES SHOULD NOT EXCEED 75F TO PREVENT PREMATURE POLYMERIZATI  
ON OF THE PRODUCT.  
Other Precautions:AVOID CONTACT WITH SKIN AND EYES.

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE REQUIRED DURING CAST APPLICATION. DURING CAST REMOVAL USE NIOSH/MSHA APPROVED RESPIRATORS FOR DUST IF CONCENTRATION EXCEEDS THE TLV FOR NUISANCE DUST.  
Ventilation:NORMAL MECHANICAL VENTILATION DURING CAST APPLICATION. RECOMMEND LOCAL EXHAUST DURING CAST REMOVAL.  
Protective Gloves:VINYL OR RUBBER GLOVES  
Eye Protection:

SAFETY GOGGLES WITH SIDE SHIELD.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH HANDS BEFORE EATING OR SMOKING OR USING THE WAS ROOM. LAUNDRER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

THE FIBERGLASS SUBSTRATE IS A LOW DUST/FIBER RELEASING MATERIAL. FREE FIBERGLASS DUST PARTICLES ARE NOT EXPECTED TO BE RELEASED AS THE SUBSTRATE IS BOUND BY THE PREPOLYMER.

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===== Physical/Chemical Properties =====  
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HCC:N1

Boiling Pt:B.P. Text:392F,200C

Vapor Pres:NIL

Spec Gravity:1.23-PREPOLYMER

Solubility in Water:REACTS

Appearance and Odor:4 YDX3 IN BANDAGE (FIBERGLASS SUBSTRATE COATED WITH A POLYURETHANE RESIN.

Percent Volatiles by Volume:NIL

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===== Stability and Reactivity Data =====  
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Stability Indicator/Materials to Avoid:NO

WATER, STRONG ALKALI, ALCOHOLS, METAL COMPOUNDS, SURFACE ACTIVE AGENTS.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:CARBON DIOXIDE & CARBON DIOXIDE, NITROGEN OXIDES AND ISOCYANATE VAPORS.

Conditions to Avoid Polymerization:POLYMERIZATION MAY OCCUR IF MATERIAL IS HEATED FOR LONG PERIODS.

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===== Disposal Considerations =====  
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Waste Disposal Methods:DISPOSAL SHOULD BE DONE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.HARDENED CAST MATERIAL IS NOT CLASSIFIED AS A HAZARDOUS WASTE AND MAY BE DISPOSED OF IN AN ORDINARY LANDFILL.

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r situation.