

MATERIAL SAFETY DATA SHEET

BeneCast FLEX



BeneCare Medical

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1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

ITEM	BENECAST / FLEX		
GENERAL CHEMICAL CHARACTERISTIC	POLYESTER KNIT COATED WITH POLYURETHANE RESIN		
ANALYSIS OF NOXIOUSNESS	CHRONIC EXPOSURE & CONTACT MAY CAUSE NOXIOUSNESS		
USAGE	IMMOBILIZATION FOR FRACTURED BODY		
INFORMATION OF MANUFACTURER	COMPANY	BENECARE MEDICAL.	
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	PHONE	+44 (0)161 273 6789	
REVISION DATE	2014-05-30	REVISION NO.	3

2. COMPOSITION, INFORMATION ON INGREDIENTS

NAME	TRADE NAME / SYNONYMS	CAS NO OR I.D NO	CONTENT (%)
NC-3000	ISOCYANATE-TERMINATED POLYURETHANE	-	54% OF BENE CAST
NSP-5000	ISOCYANATE-TERMINATED POLYURETHANE	-	50% OF BENE FLEX
POLYESTER KNIT	POLYETHYLENE TEREPHTHALATE	-	46% OF BENE CAST 50% OF BENE FLEX

3. HAZARDS IDENTIFICATION

NECESSARY INFORMATION IN EMERGENCY

POTENTIAL HEALTH EFFECTS	EYE	CURED CAST MAY CAUSE INJURY PHYSICALLY. RESIN MAY CAUSE IRRITATION.
	SKIN	MAY STICK TO SKIN BEFORE CURED. ALLEGIC SENSITIZATION MAY OCCUR.
	INHALATION	RESPIRATORY SENSITIZATION MAY OCCUR. ADDITIONAL EFFECTS MAY INCLUDE COUGH, WHEEZE AND DYSPTNOEA.
	INGESTION	NO INFORMATION IN AVAILABLE.
	CHRONIC EFFECTS	NO INFORMATION IN AVAILABLE.
	SIGNS & SYMPTOMS	NO INFORMATION IS AVAILABLE.

4. FIRST AID MEASURES

EYE CONTACT	WHEN RESIN CONTACT WITH EYES, WASH EYES IMMEDIATELY WITH MUCH AMOUNTS OF WATER OR NORMAL SALINE, UNTIL NO EVIDENCE OF CHEMICAL REMAINS. (AT LEAST 15~ 20 MINUTES) GET MEDICAL ATTENTION IMMEDIATELY.
SKIN CONTACT	WHERE RESIN HAS COME IN CONTACT WITH SKIN, IT CAN BE REMOVED USING ACETONE OR ALCOHOL PRIOR TO SETTING.
INHALATION	ADMINISTRATION OF A BRONCHODILATOR IF NECESSARY. KEEP PERSON WARM AND REST. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.
INGESTION	IF VOMITING OCCURS, KEEP HEAD LOWER THAN HIPS TO HELP PREVENT ASPIRATION. TREAT SYMPTOMATICALLY AND SUPPORTIVELY. GET MEDICAL ATTENTION IF NEEDED.
NOTE TO PHYSICIAN	NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

5. FIRE FIGHTING MEASURES					
FLASH POINT	> 200°C	AUTOIGNITION	NO DATA AVAILABLE	LOWER/UPPER FLAMMABLE LIMIT	NO DATA AVAILABLE
FRAMABLE CLASS	NO DATA AVAILABLE				
EXTINGUISHING MEDIA	DRY CHEMICAL, CARBON DIOXIDE, WATER SPRAY OR REGULAR FOAM.				
FIRE FIGHTING	USE AGENTS SUITABLE FOR TYPE OF SURROUNDING FIRE. AVOID BREATHING HAZARDOUS VAPORS. KEEP UPWIND.				
HAZARDOUS COMBUSTION PRODUCTS	THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE HIGHLY TOXIC FUMES OF HYDROGEN CYANIDE, TOXIC OXIDE OF CARBON AND NITROGEN, AND HAZARDOUS ISOCYANATES.				

6. ACCIDENTAL RELEASE MEASURES	
NECESSARY POINTS TO PROTECT HUMAN BODY	USE DISPOSABLE GLOVES TO AVOID BEING STAINED WITH RESIN. AS BENE CAST/BENE FLEX IS LIGHTWEIGHT, PATIENTS SHOULD BE CAUTIONED AGAINST UNDUE ACTIVITIES THAT WOULD AFFECT THE CAST INTEGRITY AND THEIR HEALING.
NECESSARY POINTS TO PROTECT ECOLOGY	SEGREGATED COLLECTION TO BURN UP BY USING INCINERATOR.
DEFECATION OR REMOVE	WHERE RESIN HAS COME IN CONTACT WITH SKIN, IT CAN BE REMOVED USING ACETONE OR ALCOHOL PRIOR TO SETTING.

7. HANDLING & STORAGE	
HANDLING	DISPOSABLE GLOVES SHOULD BE WORN WHILE HANDLING THE TAPE, AS THE POLYURETHANE RESIN WILL ADHERE TO SKIN OR TO COLTHING.
STORAGE	RECOMMEND TO STORE IN A COOL, DRY AREA. STORAGE AT HIGH TEMPERATURE OR EXPOSURE TO SUNLIGHT WILL AFFECT THE SHELF LIFE.

8. INFORMATION OF PERSONAL PROTECTION & EXPOSURE CONTROL

ENGINEERING CONTROL	NO DATA AVAILABLE.		
RESPIRATION PROTECTION	RECOMMEND VENTILATION FACILITIES OR PREPARING SELF-CONTAINED BREATHING APPARATUS. DURING CUTTING CASTING TAPE BY CAST SAW, DUST MAY OCCUR. IT IS NOT HARMFUL TO HUMAN BODY BUT RECOMMEND USING MASK.		
EYE PROTECTION	NO DATA AVAILABLE	HAND PROTECTION	DISPOSABLE GLOVE
BODY PROTECTION	APPROPRIATE IMPERVIOUS GARMENT.		
CAUTIONS	DO NOT USE WARM OR HOT WATER. THAT MAY CAUSE A BURN BY GENERATING TOO MUCH HEAT WHILE CASTING TAPE TURNS HARD.		
MAX. CONCENTRATION	NO DATA AVAILABLE		

9. PHYSICAL / CHEMICAL CHARACTERISTICS

APPEARANCE	KNITTED FABRIC COATED WITH STICKY RESIN		
ODOR	A UNIQUE, WEAK ODOR		
PH	NO DATA AVAILABLE	WATER SOLUBILITY	REACT
BOILING POINT	NO DATA AVAILABLE	MELTING POINT	NO DATA AVAILABLE
EXPLOSION	NO DATA AVAILABLE	OXIDATIVE	NO DATA AVAILABLE
VAPOR PRESSURE	NO DATA AVAILABLE	SPECIFIC GRAVITY	1.12 @25°C
DISTRIBUTION	NO DATA AVAILABLE	VAPOR DENSITY	NO DATA AVAILABLE
VISCOSITY	NO DATA AVAILABLE	MOLECULAR WEIGHT	NO DATA AVAILABLE

10. STABILITY & REACTIVITY	
CHEMICAL STABILITY	STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.
CONDITIONS TO AVOID	IF CASTING TAPE IS EXPOSED TO WATER OR MOISTURE IN ATMOSPHERE BEFORE USING, UNDESIRABLE HARDENING WILL OCCUR.
SUBSTANCES TO AVOID	OXIDIZERS (STRONG)
HAZARDOUS DECOMPOSITION	HAZARDOUS DECOMPOSITION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.
POLYMERIZATION	HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

11. TOXICOLOGICAL INFORMATION			
INFLUENCE TO EYE	RESIN MAY CAUSE IRRITATION WITH LACHRYMATION.		
INFLUENCE TO SKIN	ISOCYANATES MAY CAUSE IRRITATION WITH SKIN CONDITIONS RANGING FROM ITCHING TO WIDESPREAD ECZEMA. ALLEGIC SENSITIZATION IS POSSIBLE, BUT ONLY RARELY.		
ACUTE ORAL	NO DATA AVAILABLE	ACUTE SUCTION	NO DATA AVAILABLE
TOXICITY OF GENERATION	NO DATA AVAILABLE	CHRONIC	NO DATA AVAILABLE

12. ECOLOGICAL INFORMATION				
ECOLOGICAL CONTAMINANT	AIR <input type="checkbox"/>	WATER <input type="checkbox"/>	SOIL <input type="checkbox"/>	MARINE <input type="checkbox"/>
TRANSFER TO SOIL	NO DATA AVAILABLE			
DEGRADABILITY & PERSISTENCY	NO DATA AVAILABLE			
BIOCONCENTRATION POSSIBILITY	NO DATA AVAILABLE			

13. DISPOSAL CONSIDERATIONS	
WASTE DISPOSAL REGULATION	OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN DISPOSING OF THIS SUBSTANCE.
WASTE DISPOSAL METHOD	RECOMMEND TO BURN UP AT AN INCINERATOR OR A TRASH BURNER
US EPA RCRA HAZARDOUS WASTE NUMBER	NO DATA AVAILABLE

14. TRANSPORTATION INFORMATION	
REGULATION & CLASSIFICATION BY ICAO / IATA, ADR, RID	NON-REGULATED IT IS NOT IN THE DANGEROUS MATERIALS.
CAUTIONS WHEN TRANSPORT	KEEP TEMPERATURE NOT TOO HIGH

15. REGULATORY INFORMATION	
SARA HAZARD CATEGORIES	-
TSCA (TOXIC SUBSTANCE CONTROL ACT)	-
OTHERS	-

16. OTHER INFORMATION	
SOURCE OF THE INFORMATION	KOREA INDUSTRIAL SAFETY COOPERATION

※ OUR MSDS DOES NOT COVER ANY DISPUTE.
PLEASE CONTACT US FOR FURTHER INFORMATION.