

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME (ON LABEL) : SeamTek® Chemical Resistant Hardener, **CRH405**

COMMON NAME: developmental epoxy hardener DATE PRINTED: 9/1/02

DISTRIBUTOR:

SEAMLESS TECHNOLOGIES, INC.
 PO Box 428
 Chestertown, MD 21620

EMERGENCY TELEPHONE: CHEMTREC
24 HOURS A DAY 1 (800) 424-9300
INFORMATION TELEPHONE: 1 (800) 666-6216

DATE PREPARED : 01-Aug-01 PREVIOUS MSDS REVISION DATE: first rev.

SECTION 2 - COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt %	OSHA PEL	ACGIH TLV
modified cycloaliphatic polyamines	trade secret		N.E.	N.E.
benzyl alcohol	100-51-6		N.E.	N.E.

T.S.C.A. Status - OK on all above components.

SECTION 3 - PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE	: light amber	SPECIFIC GRAVITY (H2O=1.0)	: 1.01
PHYSICAL STATE	: liquid	DENSITY (LB/GAL)	: N/A
VAPOR PRESSURE	: N/A mm Hg.	MELTING POINT (°C)	: N/A
ODOR	: amine odor	EVAPORATION RATE	: N/A
VAPOR DENSITY	: N/A	(Butyl Acetate = 1)	
WATER SOLUBILITY	: N/A	V.O.C.	: N/A

SECTION 4 - STABILITY & REACTIVITY

STABILITY : Stable.

CONDITIONS TO AVOID : Keep container closed when not in use.

INCOMPATIBILITY : Avoid contact with strong oxidizers or acids.

HAZARDOUS DECOMPOSITION BY PRODUCTS: By fire: carbon dioxide, carbon monoxide, nitrogen oxide, aldehydes.

HAZARDOUS POLYMERIZATION : Will not occur.

CONDITIONS TO AVOID : Uncontrolled reaction with epoxy resins. Avoid breathing fumes generated by hardener and epoxy mixture when not used within established pot life.

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SECTION 5 - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP METHOD) :>200°F **LOWER EXPLOSIVE LIMIT** :N/A
UPPER EXPLOSIVE LIMIT :N/A

EXTINGUISHING MEDIA :Foam, CO₂, dry chemical, water spray
SPECIAL FIRE FIGHTING PROCEDURES :Wear full protective equipment including self contained breathing apparatus. Irritating and/or toxic gases may be generated by fire.
UNUSUAL FIRE AND EXPLOSION HAZARDS :Combustion products may be toxic. Cool storage containers with water spray to prevent pressure buildup which could rupture containers.

SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: **INHALATION?** yes **SKIN?** yes **INGESTION?** yes
SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation of skin.
HEALTH HAZARDS (ACUTE AND CHRONIC):ACUTE:Irritation of skin and dermatitis.
CHRONIC:Repeated overexposure will cause severe skin irritation, dermatitis and sensitization. Sensitized persons may experience rapid irritation of skin upon exposure. **NOTE:Persons with lung disorders or who are sensitized should not use this product.**
CARCINOGENICITY: **NTP?** No **IARC MONOGRAPHS?** No **OSHA REGULATED?** No
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE:
Allergy, skin disorders.

SECTION 7 - FIRST AID PROCEDURES

EYES: Flush with water, holding lids open for 15 minutes or more. Call physician for advice if necessary.
SKIN: Promptly wash with soap and water. Do not wash with solvents. Seek medical advice if irritation develops or persists.
INHALATION: Move person to fresh air if effects occur. If needed, give oxygen or artificial respiration to improve breathing. Consult physician.
INGESTION: Get medical attention immediately. Never give liquids to an unconscious or convulsing person.

SECTION 8 - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear protective clothing to prevent exposure. Stop spill and dike to prevent spreading. Cover spill with absorbent materials and collect into containers. Clean contaminated area with detergent and water or a steam cleaner for best results.
WASTE DISPOSAL METHOD: Dispose in accordance with all Federal, State and Local requirements.
HANDLING AND STORAGE PRECAUTIONS: Keep containers tightly closed when not in use.
OTHER PRECAUTIONS: None known.

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SECTION 9 - EXPOSURE CONTROL & PERSONAL PROTECTION

RESPIRATORY PROTECTION: Provide adequate exhaust ventilation and/or NIOSH approved amine cartridge respirator.

VENTILATION: LOCAL EXHAUST:if needed SPECIAL: none known

MECHANICAL (GENERAL): Adequate exhaust ventilation must exhaust away from the applicator.

PROTECTIVE GLOVES: natural rubber or neoprene gloves

EYE PROTECTION: splash goggles or face shield

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use rubber apron, face shield and appropriate clothing to prevent contact with skin. Launder contaminated clothing before reuse. Discard contaminated leather shoes and canvas sneakers. Protective skin creams help cleaning with soap and water, however, gloves must still be worn. An eye wash station or an adequate supply of clean water must be available at the work area.

WORK/HYGIENIC PRACTICES: Enforce careful handling to prevent splashing. Wash thoroughly after handling.

SECTION 10 - OTHER INFORMATION

HMIS RATINGS: HEALTH :3
FLAMMABILITY :1
REACTIVITY :0
PERSONAL PROTECTION :G

KEY TO ABBREVIATIONS:

N.E. = none established

NOTICE

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END OF MSDS