

**Glasswall NR Coating System
MSDS Listing
and
Explanation of Use**

PROPER NAME	Use within System	Name on general MSDS List
WRP850 and WHP850	Epoxy resin and hardener for coating system	WRP850 and WHP850

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME(ON LABEL) : SeamTek® Wall Coating Hardener, **WHP850**
 COMMON NAME: cycloaliphatic diamine epoxy hardener DATE PRINTED: 7/2/02
 DISTRIBUTOR:
SEAMLESS TECHNOLOGIES, INC. EMERGENCY TELEPHONE: **CHEMTREC**
PO Box 428 24 HOURS A DAY **1(800)424-9300**
Chestertown, MD 21620 INFORMATION TELEPHONE: **1(800)666-6216**

DATE PREPARED : 8-Jun-94 PREVIOUS MSDS REVISION DATE: FIRST
 REV.

SECTION 2 - COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt %	OSHA PEL	ACGIH TLV
benzyl alcohol	100-51-6	25-40	N.E.	N.E.
Cycloaliphatic Diamine	2855-13-2	18-35	N.E.	N.E.
Polyoxypropylenediamine	9046-10-0	15-30	N.E.	N.E.
Propylene Glycol Monomethyl Ether (PM)	107-98-2	10-20	100ppm	100ppm
1,5 pentanediamine, 2 methyl	15520-10-2	1-5	N.E.	N.E.
Amorphous Silicon Dioxide	7631-86-9	2-6	N.E.	N.E.
salicylic acid	69-72-7	3-10	N.E.	N.E.

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

SECTION 3 - PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE	: slightly hazy	SPECIFIC GRAVITY (H₂O=1.0)	:<1.00
PHYSICAL STATE	: liquid	DENSITY (LB/GAL)	: 8.26
VAPOR PRESSURE (PM)	: 12.6 mm Hg @75°F	MELTING POINT (°C)	: N/A
ODOR	: amine odor	EVAPORATION RATE	: N/A
VAPOR DENSITY	: N/A	(Butyl Acetate = 1)	: PM = 0.70
WATER SOLUBILITY	: partially soluble		

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 BYPRODUCTS: 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.

(Continued on page 2)

SECTION 5 - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP METHOD) :100°F **LOWER EXPLOSIVE LIMIT:**unknown
UPPER EXPLOSIVE LIMIT:unknown

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

HMS RATINGS:

HEALTH	:2
FLAMMABILITY	:1
REACTIVITY	:0
PERSONAL PROTECTION	:G

KEY TO ABBREVIATIONS:

N.E. = none established

NOTICE

"The information contained herein is, to the best of our knowledge and belief, accurate. However, since data, safety standards, and government regulations are subject to change; and the conditions of handling and use (or misuse) are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use or misuse of this material. It is the responsibility of the user to satisfy himself that he has all current data relevant to his particular application, and to comply with all applicable Federal, State and local laws and regulations."

END OF MSDS

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME (ON LABEL) : SeamTek® Wall Coating Resin **WRP850** (All Colors)
 COMMON NAME : pigmented epoxy resin DATE PRINTED: 7/2/02
 DISTRIBUTOR:
 SEAMLESS TECHNOLOGIES, INC. EMERGENCY TELEPHONE: CHEMTREC
 PO Box 428 24 HOURS A DAY 1(800)424-9300
 Chestertown, MD 21620 INFORMATION TELEPHONE: 1(800)666-6216
 DATE PREPARED : 27-May-94 PREVIOUS MSDS REVISION DATE: FIRST
 REV.

SECTION 2 - COMPOSITION & INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Wt %	OSHA PEL	ACGIH TLV
diglycidyl ether bisphenol A epoxy resin	25085-99-8	45-65	N.E.	N.E.
aliphatic glycidyl ether diluent	68609-97-2	4-10	N.E.	N.E.
rutile titanium dioxide	13463-67-7	4-30	10 mg/m ³	10 mg/m ³
calcium carbonate	1317-65-3	3-8	10 mg/m ³	10 mg/m ³
aluminum silicate	1332-58-7	0-2	10 mg/m ³	10 mg/m ³
barium sulfate ①	7727-43-7	3-20	10 mg/m ³	10 mg/m ³
inorganic iron oxides	1309-37-1	4-20	10 mg/m ³	10 mg/m ³
chromium(III)oxide)trivalent chromium ②	1308-38-9	4-20	0.5 mg/m ³	0.5 mg/m ³

① Barium sulfate is listed in SARA III, part 372, section 313.

② this product contains only 1-3ppm (0.00001%-0.00003% leachable hexavalent chromium. Trivalent chromium is not specifically listed as a possible carcinogen.

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

SECTION 3 - PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE : viscous liquid SPECIFIC GRAVITY (H₂O=1.0) : 1.55
 PHYSICAL STATE : liquid DENSITY (LB/GAL) : 12.93
 VAPOR PRESSURE : N/A mm Hg. MELTING POINT (°C) : N/A
 ODOR : mild EVAPORATION RATE : N/A
 VAPOR DENSITY : N/A (Butyl Acetate = 1)
 WATER SOLUBILITY : none

SECTION 4 - STABILITY & REACTIVITY

STABILITY : Stable.
 CONDITIONS TO AVOID : Excessive heating over long periods of time degrades the resin.
 INCOMPATIBILITY : Uncontrolled reaction with amines.
 HAZARDOUS DECOMPOSITION BYPRODUCTS: By fire: carbon dioxide, carbon monoxide, nitrogen oxide, aldehydes.
 HAZARDOUS POLYMERIZATION : Will not occur.
 CONDITIONS TO AVOID : Uncontrolled reaction with amines.

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SECTION 5 - FIRE & EXPLOSION HAZARD DATA

FLASH POINT (CLOSED CUP METHOD) :485°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.

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.

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.

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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.

(Continued on page 3)

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

HMS RATINGS:

HEALTH	:1
FLAMMABILITY	:1
REACTIVITY	:0
PERSONAL PROTECTION	:G

KEY TO ABBREVIATIONS:

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END OF MSDS