



Seamless Technologies Inc. Technical Specification
Ure-Glaze NR (Non-Reinforced)
Resinous Wall System

Section- _____

www.SeamTekInc.com

1-800-666-6216

Part 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplemental Conditions and Division 1 Specification sections apply to work of this Section.

1.02 WORK INCLUDED

- A. Provide materials, labor and equipment required to prepare designated wall area and install wall system as shown on the drawings.
- B. Related Work:
 - 1. Section 03300: Concrete Work, for concrete substrate.
 - 2. Section _____ : Plumbing, drains.
 - 3. Section 07000: Sealants, silicone sanitary and USDA sealants.

1.03 QUALITY ASSURANCE

- A. Manufacturer: Obtain all wall system materials required for this Section from a single manufacture.
- B. Contractor: Shall have a minimum of 10 years experience in the installation of seamless walls. Shall be Approved Installer of Manufacturer specified.

1.04 SUBMITTALS

- A. Manufacturer's data for wall system, including the following:
 - 1. Physical Properties
 - 2. Performance Properties
 - 3. Specified Tests
 - 4. Material Safety Data Sheets
- B. Manufacturer's standard single source warranty in accordance with Section 1.05 WARRANTY.
- C. Contractor Experience: Select a contractor with a minimum of 5 years experience installing the specified system and with written certification from the Manufacturer.
- D. Manufacturer's standard color charts for color selection.
- E. Three 12" X 12" system samples for purposes of chemical resistance testing and finish texture approval.

1.05 WARRANTY

- A. Furnish manufacturer's written warranty on seamless walls, for period of two years after installation., warranting against loss of bond and wear through to concrete substrate (through normal wear and use). Warrant shall be single source from the manufacturer, including material and labor.

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1.06 DELIVERY, HANDLING AND STORAGE

- A. Deliver materials in manufacturer's unopened, undamaged containers, clearly marked with the following:
 - 1. Product Name
 - 2. Manufacturer's Name
 - 3. Resin or Hardener Designation
 - 4. Mix Ratio of Resin and Hardener
- B. Handle materials in a safe and proper manner to avoid damage or spills.
- C. Inspect direct job site deliveries to verify correct material and quantities are received in good condition.
- D. Replace, at no cost to the owner, materials that are found to be defective in manufacturing or damaged in transit, handling or storage.
- E. Store materials per manufacturer's instructions and as follows:
 - 1. Seals and labels shall be intact and legible.
 - 2. Temperature of storage area shall be maintained between 60°F and 85°F.
 - 3. Do not use materials which have been stored for a longer period of time than the manufacturer's maximum recommended shelf life.

1.07 JOB SITE CONDITIONS

- A. Pre-Installation conference shall be required with General Contractor, Owners Representative, Seamless Contractor and/or Manufacturer's Representative to review the following:
 - 1. Evaluate substrate conditions and extent of repairs necessary for Contractor to begin normal preparation and installation of seamless wall finishes.
 - 2. Evaluate detail conditions at all penetrations, terminations and perimeter locations. Detail problems should be documented and resolved prior to wall installation.
 - 3. Test concrete substrates to verify that substrate moisture content does not exceed that recommended by wall system manufacture.
 - 4. Review job site conditions, including temperature, power, and lighting, necessary for a successful installation.
- B. Protect surrounding substrate and surfaces, as well as in place equipment, from damage during surface preparation and system installation.
- C. Job area shall be free of other trades during wall installation, and for a period of 48 hours upon completion.
- D. General Contractor shall provide adequate ventilation by use of fans or other devices.
- E. General Contractor shall maintain lighting at a minimum uniform level equivalent to the end use conditions in the areas where the seamless wall system is being installed. If possible, schedule installation so that permanent lighting will be operational during installation.
- F. General contractor shall ensure that leaks from pipes and other sources are corrected prior to wall installation.
- G. General Contractor shall provide minimum substrate temperatures of 65 degrees F and atmospheric temperature of 70 degrees F with relative humidity below 85% during wall installation and until final acceptance.

1.08 CURING, CLEAN UP AND PROTECTION

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- A. Cure final wall system in accordance with manufacturer's recommendations. Cure time shall be a minimum of 48 hours prior to traffic and 7 days before exposure to chemicals.
- B. Clean up work area, removing all equipment, materials and trash.
- C. General contractor shall provide temporary protection from construction traffic and other trades prior to final acceptance by the owner.

Part 2 - Products

2.01 Materials

A. Wall Systems Overview

The wall system specified shall be SeamTek Ure-Glaze NR by Seamless Technologies, Inc. This system is a high build epoxy wall finish applied in a minimum thickness of 12-16 mls Dry Film Thickness (DFT). The system shall be pinhole free. When applying over CMU do not use block fillers that contain PVA.

Physical Properties For Ure-Glaze NR

Hardness Shore D	ASTM D-1706	70 - 80
Tensile Strength	ASTM D-638	3,000 psi min.
Flexural Strength	ASTM D-790	4,000 psi min.
Thermal Shock	Mil F-52505	No cracking or loss of adhesion
Abrasion Resistance (Taber Abrader, CS-17 Wheels, 1000 gm. load, 1000 cycles)	ASTM D-4060	.035 gm loss
Ultimate Elongation	ASTM D-638	20% min.
Chemical Resistance	20% Acetic Acid	Occasional Spill
	50% Citric Acid	Good
	20% Nitric Acid	Occasional Spill
	30% Hydrochloric Acid	Occasional Spill
	10% Hydrofluoric Acid	Occasional Spill
	Hydrogen Peroxide	Good
	40% Potassium Hydroxide	Good
	40% Sodium Hydroxide	Good
	50% Sulfuric Acid	Good
	Urea	Good

Part 3 - Execution

3.01 Surface Preparation

- A. Existing drywall surfaces shall be sanded and wiped clean prior to installation of glass wall system. New drywall joints shall be taped and prepared to receive system. In short, new construction shall be paint ready.
- B. New CMU walls shall be block filled with heavy duty latex block filler or equivalent grade product. Apply no less than two (2) coats of block filler to provide a pin

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hole free surface at the level of the block filler. Do not proceed with the Ure-Glaze NR coating until all pin holes are closed.

- C. Existing painted CMU shall be mechanically abraded to assure a good mechanical bond, then cleaned free of dust and debris prior to coating.
- D. New poured concrete vertical surfaces shall be free of bug holes. Note: The corrective measures to fix bug holes is not part of this specification.

3.02 APPLICATION

- A. Apply each component of wall system per manufacturer's installation instructions, including mixing and application. Apply wall system directly over non-expansion joints and cracks which have been treated with semi-rigid epoxy. Terminate system at edge of expansion joints, as designated by Design Professional.
- B. Cure resinous wall system materials in compliance with manufacturer's directions.

3.03 CLEANING AND PROTECTION

- A. Cleaning: Remove all debris resulting from the wall installation during the progress of the work.
- B. Protection: General contractor shall provide protection from other trades prior to final acceptance by owner.

sti[®] Seamless Technologies, Inc.

SeamTek[®] N² Ure-Glaze Urethane Resin

Product Data

1. Product Description

Basic use

SeamTek[®] Ure-Glaze (part of the N2 product line) is a two component 100% solids, low-odor, no VOC urethane resin that chemically cures to form a highly abrasion resistant binder for high performance interior wall and concrete pit finishes. It has been specifically designed to exhibit excellent flow characteristics, air release, and workable viscosity.

Features and benefits include:

- No amine blush – no frosting
- Color Stable
- Low foaming
- Excellent adhesion properties
- Good workability – easy to spread
- 100% solids – solvent free
- No VOC
- Low odor
- Low flammability
- High Taber Resistance

The STI SeamTek systems are composed of resins and aggregates which utilize the best available technology for safety and performance. All products and systems are extensively field tested prior to use on SeamTek projects.

Composition and Materials

SeamTek Pigmented Urethane is a chemical curing, two component, 100 % solids Urethane coating.

Sizes

The binder resin and hardener are packaged in 4 U.S. gallon pails.

Limitations

SeamTek Ure-Glaze must not be used to bridge moving cracks or joints. Non-moving cracks or joints that must be over coated require rigid repairs. See STI Technical Manual System Specifications for details. Surface or air temperature must be between 65°F minimum and 80°F maximum and relative humidity below 70%. Lower temperatures will extend cure time and higher temperatures will reduce pot and work life.

Storage and Handling

Because SeamTek Ure-Glaze has a flash point above 200°F (93°C), transportation, storage and handling are less restricted.

Product Health and Safety Information

Refer to container labels and Material Safety Data Sheets available from STI for health, safety and environmental information. If necessary, call STI at (800) 666-6216.

Applicable Standards

STI SeamTek Ure-Glaze has been tested in accordance with American Society for Testing and Materials (ASTM) methods. Refer to Table 1 on page 1 for more information. SeamTek Urethane can be used as a floor coating in food processing areas and other similar applications. The USDA and FDA no longer regulates coatings used on floors, walls, and ceilings in food process areas, since the surfaces are not intended for food contact.

Surface Preparatory Work

Preparatory work must be done in accordance with procedures described in STI Technical Manual.

Mixing

Caution, containers used to measure SeamTek Ure-Glaze resin and Harder must be marked appropriately and only used to measure the indicated component. Container used to mix both resin and hardener must be cleaned or changed

Table 1 Typical Physical Properties

Property	Measuring Standards and Conditions	Results Part A/Part B
Specific Gravity	ASTM D 70, Fisher #3-247 pycnometer	1.25
Weight +/- 0.4 lbs./gal.	ASTM E 201	10.7 lbs./gal.
Non-volatile Content	ASTM D 1353, 18 hrs. at 200°F (93°C)	100%
Viscosity, cps	LV #3 Spindle, Thix 3.01, 77 degree F	8,850 cps
Flash Point, TCC minimum	Seta Flash	Greater than 200°F (93°C)
Solvent Odor	ASTM D 1296	Extremely low
Pot Life		20 minutes at 72°F (22°C) & 50% R.H.

after mixing each batch to avoid residual material affecting viscosity and cure rates.

Measure both parts by volume 2 parts 231 resin to 1 305 hardener into plastic marked containers. Pour resin and hardener into a separate container and agitate using a jiffy paddle and low speed drill (400-600 rpm). Agitate for 2 minutes, then scrape sides of container and mix for an additional minute. Avoid generating air bubbles and foam. Consider mixing small batches to reduce potential waste. To avoid exothermic reaction in mixing container, do not let mixed components sit in container. Immediately, begin to apply the mixture to the wall surface and do not mix more material than you can apply in 20 minutes. Spread or finish material according to application instructions contained in STI Technical Manual.

3. Warranty

STI Wall Systems are installed by STI Associate Contractors and are available with the STI Single Source Limited Warranty for Labor and Material. This Product Data Sheet is for your information and is not a contract nor a product warranty. Your installation contract is provided by your STI Associate Contractor. STI's warranty to you is made solely in the STI Single Source Limited Warranty for Labor and Material. Contact your Associate Contractor for the specific warranty document.

4. Maintenance

SeamTek Systems are hard seamless surfaces that will provide years of life with little maintenance. For more detailed maintenance instructions, please request STI Floor Maintenance Instructions. Periodic inspections by your STI Associate Contractor are recommended to discuss ways to extend the life of the floor care.

5. Technical Service

Call your STI representative for assistance.

Table 2 – Typical Performance Properties

Property	Measuring Standards and Conditions	Binder Resin Results Only See Note 1 below
Drying time	ASTM D 1475 77°F (25°C)	To Touch: 4 to 6 hrs., max. To complete: 24 hrs. max.
Hardness (indentation)	ASTM D 2240 Rex D Model 1700	65-70 resin only 80-85 with aggregate
Elongation	ASTM D 638	Less than 15 %
Tensile Strength	ASTM D 638	4500 psi (31 MPa)
Water Absorption	ASTM D 570-95	Less than 0.2%
Indentation Resistance	Mil. Std. D-3134	Zero
Water Vapor Transmission	ASTM E 96-94	Less than 0.10 U.S. perms
Weathering Resistance	ASTM G 26 Type B, BH, 300 hrs	UV Stable
Abrasion Resistance	ASTM C 501, CS-17 Wheel, 1000 rev. with 1000 gram weight	Less than 0.1 grams weight loss
Bond Strength to Concrete	ASTM D 4541	350 psi (2.4 to 3.4 MPa) Concrete fails
Electrical Conductivity		Non conductive
Flammability	ASTM D 635	Self-Extinguishing

1. For additional performance properties for binder resin with aggregate added (ie. Tensile Strength, Flexural Strength, Flexural Modulus, Compressive Strength, Coefficient of Linear Expansion, etc.) refer to STI technical manual for specific system(s) selected.

Seamless Technologies, Inc.
PO Box 428
Chestertown, MD 21620
(800) 666-6216
Fax (410) 810-2525

Your STI Associate is:

Ureglaze NR Ceiling and Wall Coating System
MSDS Listing
and
Explanation of Use

PROPER NAME	Use within System	Name on general MSDS List
SR101 and SH101	Epoxy Primer for the system	SR101 and SH101
Resin 231	Urethane resin for coating system	231
ISO 305	Urethane Hardener for resin 231	305

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.

(Continued on page 2)

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.

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.

(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:

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 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.

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

KEY TO ABBREVIATIONS:

N.E. = none established

NOTICE

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END OF MSDS