

BRIDGE DECK & ROADWAY REHABILITATION SYSTEMS

MSDS: Z-CURE

Emergency Phone Number: (800) 373-7542

SECTION 1 IDENTIFICATION

Product Name: Z-Cure
CAS#: Mixture, N/A
Product Code: None Assigned
Formula ID: 11/10/98

HMIS Hazard Rating:	Health	2 Moderate
	Fire	1 Low
	Reactivity	0 Moderate
	PPE	G

SECTION 2 SPECIAL HAZARDS

Potential irritant, sensitizer

DOT Hazard Classification: Non-Hazardous
DOT Shipping Name: Not Required
DOT Label: None

SECTION 3 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear yellow liquid
pH: 9-10 @ 200 C
Viscosity: 7 cP @ 20" C
Odor: Amine-like
Boiling Point: 1070C @ 760 mm Hg
Melting or Freezing Point: 19.5-5~F (-70 C)
Vapor Density Approx.: 4.5
Vapor Pressure: Not known
(Air=1) (ma Hg)
Percent Volatile: 20 (Water)
Solubility in Water: Soluble (by weight)
Specific Gravity: 1.06 @ 20-C
Evaporation Rate: Not known
(Water = 1)
(Butyl Acetate=1)

SECTION 4 FIRE AND EXPLOSION INFORMATION

Flash Point: >100 C (PMCC)

Auto Ignition Temperature: Not known

Lower Explosion Limit: (%) Not applicable

Upper Explosion Limit: (%) Not applicable

Extinguishing Media:

Foam: X

Alcohol Foam: CO2 X

Dry Chemical: X

Water: X

Other

Special Fire Fighting Procedures: Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

SECTION 5 HEALTH EFFECTS INFORMATION

Primary Routes of Entry: Inhalation, Skin Contact X, Eye Contact X, Ingestion

Effects of Overexposure: Based upon the available animal **toxicity information for this material**, it is anticipated that this material will not be toxic upon ingestion and direct skin exposure will produce mild or no irritation. No information found for human overexposure or for animal eye exposure.

Overexposure May Aggravate Existing Conditions: No effects indicated.

Emergency and First Aid Procedures

Eyes: Immediately flush eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Get immediate medical attention.

Skin: Wash affected areas with plenty of water, and soap if available, for several minutes. Seek medical attention if irritation develops.

Ingestion: If swallowed, give 3-4 glasses of water but DO NOT induce vomiting. If vomiting does occur, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person.

Inhalation: Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

Chemicals Listed as Carcinogen By

National Toxicology Program: No

I.A.R.C. Monographs: No

OSHA: No

SECTION 6 REACTIVITY INFORMATION

Stability: Stable X

Unstable

Conditions to avoid: Aluminum, Heat, Light (Product darkens with time upon exposure to light and heat.)

Hazardous Decomposition Products: Thermal decomposition may produce toxic organic vapors/fumes and oxides of carbon and nitrogen.

Hazardous	Polymerization	Conditions to Avoid
May	Will Not X	None Known
Occur	Occur	

Incompatibility (Materials to Avoid): Water

Other X Strong oxidizing or reducing agents, strong acids or bases

SECTION 7 SPILL AND DISPOSAL INFORMATION

Steps to be taken in case material is released or, spilled: Caution! Floors may become slippery. Wear appropriate protective gear and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.). Transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

Waste Disposal Methods: Dispose of in compliance with all federal, state, and local laws and regulations. Incineration is the preferred method.

SECTION 8 PERSONAL PROTECTION INFORMATION

Ventilation Type: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

Respiratory Protection: In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

Protective Gloves: Rubber or neoprene, when needed, to prevent skin contact.

Eye Protection: Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions.

Other Protective Equipment: Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed, to prevent skin contact.

SECTION 9 STORAGE AND HANDLING

Precautions for Storage and Handling: Keep containers tightly closed until used. Store in a cool, well-ventilated place. Protect material from exposure to light. Shelf life when stored under appropriate conditions: 1 year plus

SECTION 10 TOXICOLOGY INFORMATION

oral LD50 (rat): >5000 mg/kg

oral LD50 (rabbit): >5000 mg/kg

oral LD50 (mouse): >5000 mg/kg

skin irritation (rabbit – U.S. DOT method 4 hour exposure): essentially non-irritating
(primary irritation index 0.2)

SECTION 11 MISCELLANEOUS AND REGULATORY INFORMATION

Federal Level Regulations

Toxic Substances Control ACT (TSCA Inventory Status:

Found on U.S. EPA TSCA inventory.

CERCLA: (Comprehensive Environmental Response, Compensation and Liability 1980 requires notification of the National Response (Telephone 800.424.8802) in the event of a release of quantities following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs) listed in 40 CFR 302.4:

Chemical Name	CAS Number	Typical Maximum Concentration
None known		

SARA Title 111, Sections 302.304: (Superfund Amendments and Reauthorization Act of 1986) This act requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and release Reportable Quantities (RQs) listed for the Components in 40 CFR 355:

Chemical Name	CAS Number	Typical Maximum Concentration
None known		

SARA Title III Sections 311/312: This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:

Chemical Name	CAS Number	Hazard Categories
None known		

*) The five hazard categories are as follows: F=Fire Hazard; S=Sudden Release of Pressure; R=Reactive; A=Immediate (Acute) Health Hazard; C=Delayed (Chronic) Health Hazard.

SARA Title III Section 313: This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

Chemical Name	CAS Number	Typical Maximum Concentration
None known		

TSCA Section 12 (b): Export Notification Components present in this product which, if exported, could require either annual or one-time reporting under this regulation are as follows:

Chemical Name	CAS Number	Typical Maximum Concentration
None known		

State Right-to Know Regulations

California Proposition 65: Components present in this material which the State of California has found to cause cancer, birth defects or other reproductive harm are as follows:

Chemical Name	CAS Number	Typical Maximum Concentration
As a cancer hazard Nitrosodimethylamine	62-75-9	Trace

Massachusetts Right-to-Know: The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:

Chemical Name	CAS Number	Typical Maximum Concentration
None known		

Michigan Critical Materials: The following components of this material are included in the Michigan Critical Materials List:

Chemical Name	CAS Number
None known	

New Jersey Right-to-Know: The following components of this material are included in the New Jersey Hazardous Substance List and are present at or above reportable levels:

Chemical Name	CAS Number	Typical Maximum Concentration
None known		

Pennsylvania Right-to-Know: The following components of this material are included in the Pennsylvania Hazardous Substance List and are present at or above reportable levels:

Chemical Name	CAS Number	Typical Maximum Concentration
None known		

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