

Revision Date:	10/12	Print Date:	10/10/12	
Version 2.0		MSDS Identification:	2600LS Liner - Part B	Epoxy Curing Agent

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	:	2600LS Liner - Part B
Product Use Description	:	Epoxy Curing Agent
Company	:	Protective Floorings and Linings A Division of Milamar Coatings, LLC 311 N.W. 122nd St, Suite 100 Oklahoma City, OK 73114
Telephone	:	405-755-8448
Emergency Telephone Number	:	ChemTel 800-255-3924 or 813-248-0585 (International)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Diethylenetriamine (DETA)	111-40-0	< 70%
Phenol, 4,4'-(1-methylethylidene)bis-	80-05-7	> 30%

Chemical Family: Aliphatic Amines

3. HAZARDS INFORMATION

Emergency Ove	rview						
0 5	Harmful if swallowed.						
	Harmful in contact with skin.						
	Corrosive.						
	Keep away from heat and sour	rces o	f ignition.				
	Severe skin irritant.						
	Severe eye irritant.						
	May cause sensitization by inh	alatio	n.				
	May cause sensitization by ski	n con	tact.				
Potential Health	Effects						
	Inhalation	:	Inhalation of aerosol may cause irritation to the upper respiratory tract. Can cause severe eye, skin and respiratory tract burns.				
	Eye Contact	:	Causes eye burns. May cause blindness. Severe eye irritation.				
	Skin Contact	:	Harmful in contact with skin. Causes skin burns. Symptoms of overexposure my be headache, dizziness, tiredness, nausea and vomiting.				
	Ingestion	:	Harmful if swallowed. If ingested, severe burns of the mouth and throat, as well				

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					as a danger of perforation of the	esophagus and the stomach.
	Chro	onic Health	Hazard		and/or OSHA in concentrations of	arcinogens according to IARC, ACGIH, NTP of 0.1 percent or greater. Prolonged contact d permanent damage. Repeated or prolonged hma and eczemas.
	Exposure Guidelines Tarç	s get Organs			Skin. Eyes. Respiratory system.	
	Aggravated Medical	Condition			irritation or corrosion). Adverse	allergies. Adverse skin effects (such as rash, eye effects (such as conjunctivitis or corneal piratory effects (such as cough, tightness of chest
4. FIRST AID) MEASURES					
	General Advice				respirations. Supplemental oxyg	ig has stopped or is labored, give assisted jen may be initiated. If the heart has stopped, ardiopulmonary resuscitation immediately
	Eye Contact				Rinse immediately with plenty of minutes. Remove contact lenses	water also under the eyelids for at least 20 s.
	Skin Contact				possible to do so without delay. least 20 minutes. Cover wound	ed clothing, and any extraneous chemical, if Wash off immediately with plenty of water for at with sterile dressing. Take off contaminated NOTE TO PHYSICIANS: Application of ffective in treating skin irritation.
	Ingestion			:	Prevent aspiration of vomit. Turr	n victim's head to the side.
	Inhalation			:	Move to fresh air.	
5. FIRE-FIGH	HTING MEASURE	ËS				
	Suitable Extinguishir	ng Media			Alcohol-resistant foam. Carbon Dioxide (CO2). Dry Chemical. Dry Sand. Limestone Powder.	
	Specific Hazards					ay generate toxic nitrogen oxide gases. n carbon monoxide. Downwind personnel must be pnoxious and toxic fumes.
	Special Protective E	quipment F	or Fire Fighters			ce shield should be worn. Use personal contained breathing apparatus for fire fighting in

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	necessary.
Further information	: Do not allow run-off from fire fighting to enter drains or water courses
6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions	: Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye / face protection. Evacuate personnel to safe areas.
Environmental Precautions	: Construct a dike to prevent spreading.
Methods For Clean-Up	: Contact Protective Floorings and Linings for advice. Place in appropriate chemical waste container.
Additional Advice	: If possible, stop flow of product.
7. HANDLING AND STORAGE	
Handling	: Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Suspected cancer-causing nitrosamines could be formed. Avoid contact with skin and eyes. Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Avoid contact with eyes. Use personal protective equipment. When using, do not eat, drink or smoke.
Storage	: Store in steel containers preferably located outdoors, above ground, and surroundec by dikes to contain spills or leaks. Do not store near acids. Keep containers tightly closed in a dry, cool and well-ventilated place.
Technical Measures / Precautions	: Do not store in reactive metal containers.
8. EXPOSURE CONTROLS / PERSONAL PROTE	ECTION
Engineering Measures	: Provide readily accessible eye wash stations and safety showers. Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.
Personal Protective Equipment Respiratory Protection	: Not required for properly ventilated areas.
Hand Protection	 Neoprene gloves. Butyl-rubber gloves. Nitrile Rubber. Impervious Gloves. The breakthrough time of the selected glove(s) must be greater than the intendec use period.
Eye Protection	: Full face shield with goggles underneath

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				Chemical resistant goggles must	be worn.
	Skin And Body	Protection		Slicker Suit Impervious Clothing Full Rubber Suit (rain gear). Rubber or Plastic Boots. Long sleeve shirts and trousers v	without cuffs.
	Environmental	Exposure Contro	ols :	Construct a dike to prevent sprea	ading.
	Special Instruc Protection And			affected area with water for at lea	icles. Remove contaminated clothing. Drench ast 15 minutes. Provide readily accessible eye wash ash at the end of each work shift and before eating,

Exposure Limit(s)

Diethylenetriamine (DETA)	Time Weighted Average (TWA): ACGIH	1 ppm	
Diethylenetriamine (DETA)	Recommended Exposure Limit (PEL): NIOSH	1 ppm	4 mg/m3
Diethylenetriamine (DETA)	Time Weighted Average (TWA): OSHA Z1A	1 ppm	4 mg/m3

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Liquid.
Color	:	Amber.
Odor	:	Ammoniacal.
Relative Density	:	1.03 (water = 1).
Density	:	64.301 lb/ft3 (1.03 g/cm3) at 70 degrees F (21 degrees C)
pH	:	Alkaline.
Boiling Point / Range	:	> 392 degrees F (.200 degrees C)
Flash Point	:	230 degrees F (110 degrees C)
Water Solubility	:	0.14 g/l.
VOC		0 gram/liter

10. STABILITY AND REACTIVITY

Stability	: Stable under normal conditions.
Materials To Avoid	 Organic acids (i.e. acetic acid, citric acid etc.). Mineral Acids. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces. Caution! N-Nitrosamines, may of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres

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Hazardous Deco	omposition Pro	oducts :	with high nitrous oxide concentr Nitrous acid and other nitrosatir Reactive metals (e.g. sodium, c Materials reactive with hydroxyl Oxidizing agents. Nitric Acid. Ammonia. Nitrogen oxides (NOx). Nitrogen oxide can react with w Carbon Monoxide (CO). Carbon Dioxide (CO2) Aldehydes. Nitrosamine.	ng agents. :alcium, zinc etc.).

11. TOXICOLOGICAL INFORMATION

Acute Health Hazard

Ingestion	:	LD 50 : >1,080 mg/kg Species: Rat
Inhalation	:	No data is available on the product itself.
Skin	:	LD50 : 1,090 mg/kg Species : Rabbit.
Eye Irritation / Corrosion	:	Severe eye irritation.
Acute Dermal Irritation / Corrosion :		Severe skin irritation.
Sensitization	:	Component has caused skin and respiratory sensitization in humans.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects					
	Aquatic Toxicity	:	No data is available on the product itself.		
	Toxicity to other organisms		No data available.		
Persistence And Degradability					
	Mobility	:	No data available.		
	Bioaccumulation	:	No data available on the product itself.		

13. DISPOSAL CONSIDERATIONS

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	Waste from residues / unused products Contaminated Packaging			:	Contact supplier if guidance is	required.
					Dispose of container and unused contents in accordance with federal, state, and local requirements.	
14. TRANSPORT INFORMATION						
	CFR	Proper Shippin Class UN / ID No. Packing Group	-	:	Amines, liquid, corrosive, n.o.: 8 UN2735 III	s. (Diethylenetriamine(DETA))
	IATA Proper Shipping Name Class UN / ID No. Packing Group		:	Amines, liquid, corrosive, n.o.: 8 UN2735 III	s. (Diethylenetriamine(DETA))	
	IMDG	Proper Shippin Class UN / ID No. Packing Group	-	:	AMINES, LIQUID, CORROSIN 8 UN2735 III	/E, N.O.S. (Diethylenetriamine(DETA))
	СТС	Proper Shippin Class UN / ID No. Packing Group		:	AMINES, LIQUID, CORROSIN 8 UN2735 III	/E, N.O.S. (Diethylenetriamine(DETA))

15. REGULATORY INFORMATION

OSHA Hazard Communication Standard : Corrosive. Sensitizer. (29 CFR 1910.1200) Hazard Class(es)

Country	Regulatory List	Notification
USA	TSCA	Included on Inventory
EU	EINECS	Included on EINECS inventory or polymer substance,
		monomers included on EINECS inventory or no
		longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Communication: Acute Health Hazard

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	EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level: Phenol, 4,4'-(1-methylethylidene)bis-							
	US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65): This product does not contain any chemical known to the State of California to cause cancer, birth defects or any other harm.							
	WHMIS Hazard Classification: Toxic Material Causing Other Toxic Effects, Corrosive Material.							
16. OTHER INFORMATION								
	HMIS Rating	Health Flammability Physical Hazar	: d :	3 1 0				
	Prepared By		:	Protective Floorings and Linir	ngs. EH&S Product Safety Department			