



ReflectASeal

Epoxy Coatings & Waterproofing Systems

MATERIAL SAFETY DATA SHEET

Section I – IDENTITY INFORMATION

Identity (Tradename): REFLECTASEAL-400 Part A and Part B
Product Type: Epoxy Solution
Date Revised: August 19, 2009
CHEMTREC Emergency Number 1-800-424-9300

Section II – HAZARDOUS INGREDIENTS

Part A - Activator		Occupational Exposure Limits			Vapor Pressure
Hazardous Components	CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	mm Hg @ Temp
Xylene	1330-20-7	100 PPM	50 PPM	NE	6mm 68°F
Ethyl Benzene	100-41-4	100 PPM	100 PPM	NE	N/A
Aminoethylethanolamine	111-41-1	NE	NE	NE	N/A
Nonylphenol	84852-15-3	NE	NE	NE	N/A
Trade Secret (Polyamide)		NE	NE	NE	N/A

Part B - Base		Occupational Exposure Limits			Vapor Pressure
Hazardous Components	CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	mm Hg @ Temp
Ethyl Benzene	108-88-3	200 PPM	50 PPM	300 PPM	28mm 77°F
Trade Secret (Bisphenol A Polymer)		NE	NE	NE	N/A
Alkyl Glycidyl Ethers	68609-97-2	NE	NE	NE	N/A
Xylene	1330-20-7	100 PPM	100 PPM	NE	N/A
Methyl Isobutyl Ketone	108-10-1	100 PPM	50 PPM	NE	N/A
Pigment (Non-Hazardous)		100 PPM	100 PPM	60 PPM	N/A

Carcinogen Status: IARC: Not Reviewed, NTP: Not Reviewed, OSHA: Not Reviewed

Section III – PHYSICAL DATA

	Part A	Part B
Boiling Point:	282°F (Solvent)	237°F
SP. Gravity (H2O=1):	0.94	1.7
Vapor Density:	3.7 Xylene (Air = 1)	3.2
Evaporation Rate:	.6 Xylene (Butyl Acetate =1)	1.9
% Volatile:	30%	11%
Solubility in water:	Partial	Nil
Physical State:	Liquid	Liquid
Appearance and Odor:	Amber Liquid, Aromatic Odor	Pigmented or Clear Liquid, Aromatic Odor

Section IV – FIRE AND EXPLOSION HAZARD DATA

	Part A	Part B
Flash Point (Closed Cup):	80°F	68°F
Flammable Limits (LFL/UFL):	1/7 (Xylene)	1.2/7
Extinguishing Media:	Carbon Dioxide, Foam, Dry Chemical, Water Spray	
Special Fire Fighting Procedures:	Use self-contained breathing apparatus.	
Unusual Fire and Explosion Hazards:	Decomposition and combustion products may be toxic. Heating forms flammable vapors which may form explosive mixtures with air.	

Section V – REACTIVITY DATA

Stability: Stable
Incompatibility: Strong oxidizing agents
Hazardous Polymerization: Will not occur
Conditions to Avoid: Excessive heat and open flames.
Hazardous Decomposition Products: Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Aldehydes, and unidentified organic compounds

Section VI – TOXICOLOGICAL INFORMATION

	Part A	Part B
Primary Routes of Exposure:	Dermal, Inhalation	Dermal, Inhalation
Acute Oral Effects (LD50):	(Rat) 4,300mg/kg (xylene)	(Rat) 5-8g/kg
Sensitization:	Potential sensitizer	Moderate sensitizer
Acute Dermal Toxicity (LD50):	(Rabbit)>5,000mg/kg (Polyamide)	(Rabbit)>6,000mg/kg
Skin Irritation:	(Rabbit) Moderate irritant	(Rabbit) Moderate irritant
Eye Irritation:	(Rabbit) Severe irritant	(Rabbit) Severe irritant
Inhalation Toxicity (LC50):	Irritating to mucous membranes and respiratory tract.	

Section VII – FIRST AID MEASURES

Skin: Wipe away excess material with dry towel. Wash affected areas with plenty of water and soap for several minutes. Remove contaminated clothing and shoes. Get medical attention if irritation occurs. Discard or decontaminate clothing before re-use and destroy contaminated shoes.
Eyes: Immediately flush eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention. If physician is not available, flush for an additional 15 minutes.
Ingestion: If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Contains organic solvent. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention immediately!
Inhalation: Remove to fresh air. Get immediate medical attention if respiratory irritation develops or if breathing becomes difficult.
Overexposure Effects: Overexposure to this material can cause skin, eye, and respiratory irritation and allergic skin reaction. Inhalation of vapors from a component in this product cause central nervous system depression, headache, dizziness, loss of balance, coughing, pulmonary edema and liver and kidney damage. Insensitive individuals, cardiac arrhythmia, leading to death, may occur. A component in the product has caused fetal damage following dermal/oral exposure to guinea pigs or rats.
Medical Conditions Aggravated by Exposure: allergy, eczema, or skin conditions.

Section VIII – SPILL OR LEAK PROCEDURES

Accidental Release Procedures: Remove all sources of ignition. Provide explosion proof ventilation. Take up on absorbent material. Shovel with non-sparking tools into closable container for disposal. Wear protective equipment specified below. Thoroughly flush contaminated area with water.
Waste Disposal Methods: Dispose in accordance with federal, state, and local regulations.

Section IX – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Explosion proof mechanical ventilation and local exhaust recommended.
Skin Protection: Wear impervious gloves
Eye Protection: Wear splash-proof chemical goggles or complete face shield.
Respiratory Protection: Organic chemical cartridge respirator, if needed.
Other protective Equipment: Wear appropriate equipment to prevent probability of exposure and personal contact.

Section X – HANDLING AND STORAGE PRECAUTIONS

Warning! May cause severe eye irritation. May cause sensitization. Avoid breathing mist or vapor. Do not take internally. Use with adequate ventilation. Wear chemical splash goggles, impervious gloves, and protective clothing when handling. Wash thoroughly after handling. Keep container closed when not in use. Store in dry area in closed containers. For industrial use only. Flammable solution. Keep away from heat, sparks, and open flame.

Section XI – TRANSPORT INFORMATION

DOT:	<u>Part A</u>	<u>Part B</u>
Proper Shipping Name:	Resin Solution	Resin Solution
Hazard Class:	3	3
ID Number:	UN 1866	UN 1866
Packing Group:	PG III	PG III
ERG Number:	127	127

Section XII – OTHER INFORMATION

OSHA Status: This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

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