

MSDS

Material Safety Data Sheet

Revised: May 19, 2000



PRODUCT NAME: Epoxy.com Product #888 PRIMER [A-COMPONENT]

ITEM NUMBER: 888A

DESCRIPTION: EPOXY RESIN/HARDENER PRIMER

HMIS CODES:	H.*	2	F:	2	R:	0	P:	G
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SECTION I - IDENTIFICATION

MANUFACTURER'S NAME: Epoxy Systems, Inc. 20774 West Pennsylvia Ave
Dunnellon, FL 34431

Telephone: 352-489-1666

EMERGENCY PHONE NO: 800-633-8253

SECTION II-HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS / CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	LD50/LC50	WT %
Xylene #1330-20-7	100ppm	100ppm	150ppm		1 - 5 %
Methyl Isobutyl Ketone #108-10-1					1 - 5 %
Glycol Ether EB #111-76-2					1 - 5 %
Aromatic Petroleum Naphtha #64742-95-6	100ppm	100ppm	150ppm		15 - 30 %

*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of titleIII and of 40 CFR 372.

All Chemicals comprising this product are listed on the Toxic Substance Control Act (TSCA) inventory.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	279°F @ 760 mm Hg
Vapor Density	3.66 (Xylene); Vapor Pressure (mm Hg): 2.4 @ 68°F
Specific Gravity (H2O=1)	1.00 - 1.02 Wt. Per Gallon → 8.35 - 8.5 pounds)
Evaporation Rate	< 1.0 (butyl Acetate = 1.0)
Solubility in water	Insoluble
Appearance and odor	Yellowish to clear liquid mixture, aromatic odor VOC → 480 grams/liter

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point	100°F - 110°F
Flammable limits in air by volume	0.6% LEL: UEL: 6.0%
Extinguishing media	In case of fire use extinguishing media such as foam, carbon dioxide and dry chemical. Water spray may no effect extinguishing fire, but may help keep the containers cool.
Special Fire-fighting Procedures	Wear a self-contained breathing apparatus with a fullpiece operated in the positive pressure demand mode with appropriate turnout gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section.
Unusual Fire and Explosion Hazards	Vapors heavier than air may travel along the ground or may be moved by ventilation and ignite by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other source at locations distant from the material handling point. Never use welding or cutting torch on or near the containers even empty.

SECTION V - REACTIVITY DATA

Stability	Stable
Conditions to avoid	Avoid extreme acids and oxidizing agents.
Incompatibility (Materials to avoid)	Avoid contact with oxidizers, acids, and amines. Avoid contact with aluminum, its alloys, metallic aluminum and zinc powders. Reaction with these metals can cause hydrochloric acid to form and, if confined as in an aerosol can or pump; the gas pressure may rupture the container.
Hazardous Decomposition or Byproducts	May generate carbon dioxide, carbon monoxide and other various hydrocarbons.
Hazardous Polymerization	Will not occur.

SECTION VI - HEALTH HAZARD DATA

Health risks and symptoms of exposure

Inhalation	May cause giddiness, headache, dizziness, and nausea. May cause irritation to nose, throat and respiratory tract. May cause shortness of breath.
Skin Contact	May cause skin irritation and result to redness, itching, or rashes. Skin contact should be washed immediately.
Eye Contact	Will irritate eyes in case of contact. May cause burns, redness to the eyes. Wash immediately. Consult Physician.
Skin Absorption	None known.
Ingestion	Ingestion may result in vomiting and result in chemical pneumatitis edema hemorrhage and gastrointestinal irritation (nausea, vomiting, and diarrhea).

Health hazards (acute & chronic):

CARCINOGENICITY: NO; NTP? NO ; IARC MONOGRAPHS: NO ; OSHA REGULATED: No

Medical conditions generally aggravated by exposure: Prolonged or repeated exposure/contact with skin may cause allergic skin reactions.

Emergency & First Aid Procedures

Eyes	Immediately flush with plenty of water for at least 15 minutes. Keep eyelids open. Consult a physician immediately
Skin	Wash material off with plenty of soap and water. If redness, itching or burning develops, consult a physician. Remove contaminated clothes. Launder clothes before reusing them.
Inhalation	Remove person to fresh air. If not breathing, give artificial respiration. If breathing is labored, give oxygen. Get medical help immediately. Do not give any food or liquids to an unconscious person.
Ingestion	Consult physician immediately. Do not induce vomiting.

SECTION VII - SAFE HANDLING & USE INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: In case of large spill, dike area and absorb the spill and place into a waste container. Do not dispose spilled material into regular trash or in sewer.

WASTE DISPOSAL METHOD. Dispose waste in accordance to local, federal, and state rules and regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in dry cool location. Do not weld nor cut around the material or while applying the material. Avoid other ignition source such as flame, burning etc. Do not smoke while using the material or around the applied material.

OTHER PRECAUTIONS: Avoid contact with eyes, skin or clothing. Wash before eating, drinking or smoking. Provide eye wash stations and/or showers.

SECTION VIII - CONTROL MEASURES/PROTECTION INFORMATION

RESPIRATORY PROTECTION: Wear MSHA/NIOSH approved organic vapor or charcoal filtered cartridge respirator or positive pressure supplied air respirator with full facepiece or an air-supplied hood.

VENTILATION: local and or mechanical exhaust.

PROTECTIVE GLOVES: Nitrile, neoprene, and butyl rubber gloves.

EYE PROTECTION: Chemical tight goggles, full faceshield in addition if splashing is possible.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT; WORK/HYGIENIC PRACTICES: Tyvek, neoprene, butyl, nitrile rubber based clothing have excellent resistance to aromatic solvents based products. Eyewash station and safety showers in the work area. Emergency safety plans if regulations require. Proper training of the usage and application of the products.

SECTION IX – REGULATORY INFORMATION

Transportation: Ground: Not regulated

Air/Marine: Paint, Flammable Liquid N.O.S., UN1263, Class 3, PG III, Marine Pollutant

Sara Title III (Section 313 Toxic Chemical Information):

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration</u>
Xylene	#1330-20-7	1 – 5 %

California Proposition 65:

As per requirements of the Safe Drinking Water & Toxic Enforcement Act of California, USA (1986), the public is warned that materials used in this product may create an exposure to chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This warning is required by Section 25249.6 of the California Health and Safety Code.

{The following detectable components of this product are substances, or belong to classes of substances, known to the state of California to cause cancer and /or reproductive toxicity.}

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration</u>
Xylene	#1330-20-7	1 – 5 %

HMIS Ratings: Health: 2
Flammability: 2
Reactivity: 0
Protection: G (gloves, goggles, coverall/apron, respirator)

WHMIS Rating (Canada): Class, Division, Class, Division, Subdivision.

Disclaimer: The data set forth in this MSDS are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Epoxy Systems, Inc. makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.

MSDS

Material Safety Data Sheet

Revised: May 25, 2000



PRODUCT NAME: Epoxy.com Product #888 PRIMER [B-COMPONENT]

ITEM NUMBER: 888B

DESCRIPTION: Epoxy / Polyamine based primer.

HMIS CODES:	H:*	2	F:	2	R:	0	P:	G
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SECTION I - IDENTIFICATION

MANUFACTURER'S NAME: Epoxy Systems, Inc.

9370 SW 208th Cir Dunnellon, FL 34431

Telephone: 352-489-1666

EMERGENCY PHONE NO: 1-800-633-8253

SECTION II-HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS / CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	LD50/LC50	WT %
Aromatic Naphtha Solvent #64742-95-6	100ppm	100ppm	150ppm		50 – 70 %
Glycol Ether EB #111-76-2					1 – 5 %
Polyamine					

*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of titleIII and of 40 CFR 372.

All Chemicals comprising this product are listed on the Toxic Substance Control Act (TSCA) inventory.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	> 300°F
Vapor Density	> 1.0 (based on solvent)
Specific Gravity (H2O=1)	0.89 – 0.91 (Wt. Per Gallon → 7.4 – 7.6 pounds)
Evaporation Rate	< 1.0 (butyl Acetate = 1.0)
Solubility in water	Not soluble
Appearance and odor	Amber yellowish liquid mixture, aromatic odor, solvent based VOC → 680 grams/liter

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point	110 - 120°F (COC)
Flammable limits in air by volume	LEL: 1.0% : UEL: 6.2% (results of solvent)
Extinguishing media	In case of fire use extinguishing media such as foam, dry chemical, carbon dioxide, and water spray. Water spray may not help but will cool the containers and help against pressurizing.
Special Fire-fighting Procedures	Wear a self-contained breathing apparatus with a full face-piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.
Unusual Fire and Explosion Hazards	Vapors during fire are heavier than air and may travel along the ground or may be moved by ventilation and may ignite by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near the containers even empty.

SECTION V - REACTIVITY DATA

Stability	Chemically stable product.
Conditions to avoid	Avoid extreme acids and oxidizing agents.
Incompatibility (Materials to avoid)	

Hazardous Decomposition or Byproducts	May give out carbon dioxide, carbon monoxide and other various hydrocarbons on burning/fire.
Hazardous Polymerization	Will not Occur.

SECTION VI - HEALTH HAZARD DATA

Health risks and symptoms of exposure

Inhalation	May cause giddiness, headache, dizziness, and nausea. May cause irritation to nose, throat and respiratory tract. May cause shortness of breath.
Skin Contact	May cause skin irritation and result to redness, itching, or rashes. Skin contact should be washed immediately.
Eye Contact	Will irritate eyes in case of contact. May cause burns, redness to the eyes. Wash immediately. Consult Physician.
Skin Absorption	None known.
Ingestion	Ingestion may result in vomiting and result in chemical pneumatitis edema hemorrhage and gastrointestinal irritation (nausea, vomiting, and diarrhea).

Health hazards (acute & chronic):

CARCINOGENICITY: NO; NTP? NO ; IARC MONOGRAPHS: NO ; OSHA REGULATED: No

Medical conditions generally aggravated by exposure: Prolonged or repeated exposure/contact with skin may cause allergic skin reactions.

Emergency & First Aid Procedures

Eyes	Immediately flush with plenty of water for at least 15 minutes. Keep eyelids open. Consult a physician immediately
Skin	Wash material off with plenty of soap and water. If redness, itching or burning develops, consult a physician. Remove contaminated clothes. Launder clothes before reusing them.
Inhalation	Remove person to fresh air. If not breathing, give artificial respiration. If breathing is labored, give oxygen. Get medical help immediately. Do not give any food or liquids to an unconscious person.
Ingestion	Consult physician immediately. Do not induce vomiting.

SECTION VII - SAFE HANDLING & USE INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: In case of large spill, dike area and absorb the spill and place into a waste container. Do not dispose spilled material into regular trash or in sewer.

WASTE DISPOSAL METHOD. Dispose waste in accordance to local, federal and state rules and regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in dry cool locations. Do not weld nor cut around the material or while applying the material. Avoid other ignition sources such as flame, burning, etc. Do not smoke while using the material or around the applied material.

OTHER PRECAUTIONS: Avoid contact with eyes, skin or clothing. Wash before eating, drinking or smoking. Provide eye wash stations and / or showers.

SECTION VIII - CONTROL MEASURES/PROTECTION INFORMATION

RESPIRATORY PROTECTION: Wear MSHA/NIOSH approved organic vapor or charcoal filtered cartridge respirator or positive pressure supplied air respirator with full facepiece or an air-supplied hood.

VENTILATION: local and or mechanical exhaust.

PROTECTIVE GLOVES: Nitrile, neoprene, and butyl rubber gloves.

EYE PROTECTION: Chemical tight goggles, full faceshield in addition if splashing is possible.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: WORK/HYGIENIC PRACTICES: Tyvek, neoprene, butyl, nitrile rubber based clothing have excellent resistance to aromatic solvents based products. Eyewash station and safety showers in the work area. Emergency safety plans if regulations require. Proper training of the usage and application of the products.

SECTION IX – REGULATORY INFORMATION

Transportation: Ground: Not regulated

Air: paint, Flammable Liquid N.O.S., UN1263, Class 3, PG III

Marine: paint, Flammable Liquid N.O.S., UN1263, Class 3, PG III, Marine Pollutant

Sara Title III (Section 313 Toxic Chemical Information):

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration</u>
Xylene	1330-20-7	1 – 5 %

California Proposition 65:

As per requirements of the Safe Drinking Water & Toxic Enforcement Act of California, USA (1986), the public is warned that materials used in this product may create an exposure to chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This warning is required by Section 25249.6 of the California Health and Safety Code.

{The following detectable components of this product are substances, or belong to classes of substances, known to the state of California to cause cancer and /or reproductive toxicity.}

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration</u>
Xylene	1330-20-7	1 – 5%

HMIS Ratings: Health: 2
Flammability: 2
Reactivity: 0
Protection: G (gloves, goggles, coverall/apron, respirator)

WHMIS Rating (Canada): Class , Division , Class , Division , Subdivision .

Disclaimer: The data set forth in this MSDS are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Epoxy Systems, Inc. makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.