

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product: EP-015 Epoxy Coating - Part A
MSDS Date: 09-01-10

2. COMPANY IDENTIFICATION

Acrymax Technologies Inc.
221 Brooke Street
Media, PA 19063
www.acrymax.com
Emergency Phone # 610-566-7473 or 610-357-4355
Information Phone # 800-553-0523

3. INGREDIENTS

	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
1,2 Ethanediamine, N-(2-Amino Ethyl)	111-40-0	1 ppm	None	
Tetraethylene Pentamine	112-57-2	None	None	
Ethylenediamine	107-15-3	10 ppm	10 ppm	
Pentaethylene Hexamine	4067-16-7	None	None	
Water	7732-18-5	None	None	
Propylene Glycol Monomethyl Ether	107-98-2	100 ppm	150 ppm	
Glacial Acitic Acid	64-19-7	10 ppm	15 ppm	
Stoddard Solvent	8052-41-3	100ppm	None	
2-Ethyl-1-Hexanol	104-76-7	None	None	
*Glycol Ether-2-Butoxyethanol	111-76-2	25 ppm	None	<0.5
Proprietary Additive – NJTSRN	80963-5170	None	None	
Pigment (Non Hazardous in liquid form)		10 mg/m3	5 mg/m3	
Carbon	1333-86-4	3.5 ppm	None	
Filler (Non Hazardous in liquid form)		20 mppcf	None	

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

PROPYLENE GLYCOL MONOMETHYL ETHER CAS #107-98-2 (ACGIH) STEL= 150 PPM.

FOLLOW 311B (2) (A) 40 CRF 116, 117, GUIDELINES. FOLLOW TSCA 8 (A) 40 CFR 712, 47 FR 26992 GUIDELINES

4. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Low Viscosity Liquid in varying colors
State	Liquid
Vapor Density (Air = 1)	NA
Vapor Pressure	No data
Weight per gallon	9.5 – 10.5
Boiling Point	212 ⁰ F
Solubility in Water	Miscible
VOC	<150 grams/liter – as mixed with Component B
Evaporation Rate	Slower than ether

The physical and chemical data given in Section 4 are typical values for this product and are not intended to be product specifications.

5. FIRE AND EXPLOSION HAZARD DATA

Flash Point: Non-combustible

Extinguishing agents: Foam, CO₂, Dry Chemical, Water fog

Personal Protective Equipment: As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear.

Unusual Fire and Explosion Hazards: Pressure may build up in tightly closed containers exposed to fire which may result in rupture. Keep containers cooled with water spray. Material can spatter above 100°C/212°F.

6. REACTIVITY DATA

Instability: Material is considered stable. Thermal decomposition is dependent on time & temperature.

Hazardous Decomposition Products: Thermal decomposition may yield CO, CO₂, NOX.

Hazardous Polymerization: Product will not undergo hazardous polymerization.

Incompatibility: Avoid contact with strong oxidizing agents, mineral acids and epoxy resins in uncontrolled amounts.

7. HEALTH HAZARD DATA

Primary Routes of Exposure: Inhalation - Skin Contact - Eye Contact

Inhalation - Inhalation of vapor or mist can cause the following: irritation of nose, throat and lungs

Eye Contact - Material can cause the following: -slightly irritating to the eyes.

Skin Contact - Prolonged or repeated skin contact can cause the following: -moderate skin irritation – reddening

Ingestion - Material is harmful if swallowed. Material can cause the following:-gastrointestinal irritation – nausea – vomiting – diarrhea

Acute & Chronic - Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses.

8. FIRST AID MEASURES

Inhalation - Move subject to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Get medical attention immediately.

Eye Contact - Immediately flush eyes with a large amount of water for at least 15 minutes. If redness, itching or a burning sensation develops, see a physician.

Skin Contact - Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. If redness, itching or a burning sensation develops, see a physician.

Ingestion - DO NOT induce vomiting. Give milk or water to drink. Get medical attention immediately. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

Note to Physician - No specific antidote, treat symptomatically.

9. ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear compatible, chemically resistant gloves. Wear protective clothing including splash proof goggles and rubber overshoes.

Procedures: Contain spills immediately with inert materials (e.g. sand, earth). If material is spilled in a confined area ventilate the area well. Keep spectators away. Floor may be slippery; use care to avoid falling. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

10. HANDLING & STORAGE

Storage Conditions: Avoid temperature extremes during storage; ambient temperature preferred. Store in well-ventilated area. Keep container tightly closed when not in use. Keep from freezing. Store material out of direct sun.

Handling Procedures: Avoid all skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Observe conditions of good industrial hygiene and safe working practices. Use in well-ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames. Do not work alone! Keep out of reach of children!

Other: Improper disposal or re-use of product containers may be dangerous and illegal. Refer to applicable local, state and federal regulations.

11. EXPOSURE CONTROLS – PERSONAL PROTECTION

Respiratory Protection: A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant a respirator's use. None required under normal operation conditions. Approved mechanical filter respirator to remove solid airborne particles of overspray during spray application. Ventilation must be sufficient to control vapors.

Eye Protection: Use chemical splash goggles or face shield. (ANSI Z87.1 or approved equivalent). Eye protection worn must be compatible with respiratory protection system employed.

Hand Protection: Chemical-resistant gloves should be worn whenever this material is handled. Rinse and remove gloves immediately after use. Wash hands with soap and water.

Other protection: Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

Engineering Controls (Ventilation): Use local exhaust ventilation with a minimum capture velocity of 100ft/min. (.5 m/sec.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Work – Hygienic Practices: Remove contaminated clothing; launder or dry clean before reuse. Wash thoroughly with soap and water.

12. DISPOSAL CONSIDERATIONS

Procedure: Dispose of in accordance with local, state and federal regulations. To be certain that chemical waste disposal meets EPA regulatory requirements, address any questions to the RCRA (800) 424-9346. In addition, relevant State and local authorities should be contacted for information on any requirements they may have for the waste removal and disposal of this substance.

13. TRANSPORT INFORMATION

US DOT Class: Paint, Not Regulated

14. REGULATORY INFORMATION

All individual ingredients of this product are listed in Section 3 of this MSDS. Different states and locales may have different regulations, including Right-to-Know regulations, regarding specific chemical substances and users should consult the appropriate regulations and contact authorities as necessary to assure compliance with applicable regulations. All components of this product are believed to be in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

15. OTHER INFORMATION

Category	HMIS III – EP-015-A	Scale
Health	2	4 = Severe Hazard
Flammability	1	3 = Serious Hazard
Physical Hazard	0	2 = Moderate Hazard
Personal Protection	G	1 = Slight Hazard
		0 = Minimal Hazard

Prepared by: Acrymax Technologies Inc. – Technical Department

The information contained herein relates only to the specific material identified. Acrymax Technologies Inc. believes that such information is accurate and reliable as of the date of this Material Safety Data Sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. Since conditions of use are out of our control, users assume all risks associated with the use of the material and are advised to confirm in advance that the information contained in this MSDS is correct, applicable, and suitable to their circumstances. As these are proprietary formulations, the actual percentages of ingredients have been omitted pursuant to OSHA Federal Hazard Communication Standard.

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MSDS Date: 09-01-10

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3. INGREDIENTS

	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
Modified Diglycidyl Ether of Bisphenol A	25068-38-6	None	None	
Alkyl Glycidyl Ether	68609-97-2	None	None	

4. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Low Viscosity Liquid
Vapor Density (Air = 1)	N/A
Weight per gallon	9.0 – 10.0
Boiling Point	200 ^o F
Solubility in Water	Negligible
VOC	<150 grams/liter – as mixed with Component A
Evaporation Rate	N/A

The physical and chemical data given in Section 4 are typical values for this product and are not intended to be product specifications.

5. FIRE AND EXPLOSION HAZARD DATA

Flash Point: Non-combustible

Extinguishing agents: Foam, CO₂, Dry Chemical, Water fog

Personal Protective Equipment: As in any fire, wear self-contained breathing apparatus (pressure-demand, NIOSH approved or equivalent) and full protective gear.

Unusual Fire and Explosion Hazards: Pressure may build up in tightly closed containers exposed to fire which may result in rupture. Keep containers cooled with water spray. Material can spatter above 100°C/212°F.

6. REACTIVITY DATA

Instability: Material is considered stable. Thermal decomposition is dependent on time & temperature.

Hazardous Decomposition Products: CO₂, Aldehydes, Acids. Reaction with some curing agents can generate large amounts of heat.

Hazardous Polymerization: Product will not undergo hazardous polymerization.

Incompatibility: Can react vigorously with strong oxidizing agents and strong lewis acids or mineral acids.

7. HEALTH HAZARD DATA

Primary Routes of Exposure: Inhalation - Skin Contact - Eye Contact

Inhalation - Inhalation of vapor or mist can cause the following: irritation of nose, throat and lungs

Eye Contact - Material can cause the following: -slightly irritating to the eyes.

Skin Contact - Prolonged or repeated skin contact can cause the following: -moderate skin irritation – reddening

Ingestion - Material is harmful if swallowed. Material can cause the following:-gastrointestinal irritation – nausea – vomiting – diarrhea

Acute & Chronic - Epoxy resins can cause sensitization by exposure through contact or high concentrations of vapor. Prolonged or repeated exposure may cause asthma and skin sensitization or other allergic responses.

8. FIRST AID MEASURES

Inhalation - Move subject to fresh air. If breathing is difficult, give oxygen. Give artificial respiration if breathing has stopped. Get medical attention immediately.

Eye Contact - Immediately flush eyes with a large amount of water for at least 15 minutes. If redness, itching or a burning sensation develops, see a physician.

Skin Contact - Remove contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. If redness, itching or a burning sensation develops, see a physician.

Ingestion - DO NOT induce vomiting. Give milk or water to drink. Get medical attention immediately. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person.

Note to Physician - No specific antidote, treat symptomatically.

9. ACCIDENTAL RELEASE MEASURES

Personal Protection: Wear compatible, chemically resistant gloves. Wear protective clothing including splash proof goggles and rubber overshoes.

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15. OTHER INFORMATION

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Health	1	4 = Severe Hazard
Flammability	1	3 = Serious Hazard
Physical Hazard	0	2 = Moderate Hazard
Personal Protection	B	1 = Slight Hazard
		0 = Minimal Hazard

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