

Material Safety Data Sheet

EA-40

Date of Preparation: May 2, 2005

MSDS No. 25

Revision: 0008

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Section 1 - Chemical Product and Company Identification					
Emergency Contact: (Dome Intern	Formulated Epoxy e h-On Inc., 2000 S 252-5800, FAX (6 Chem-Tel estic 800-255- ational 813-248-	t. John St., Easton F 10) 252-6200 3924 0585	PA 18042 on on Ingredients		
Component	CAS Number	ACGIH	Exposure Limits	Weight Percent	
component		TWA	OSHA PEL	(%)	
Diglycidyl Ether of Bisphenol A	25085-99-8	None Established	None Established	90-95	
Silica, Amorphous	112945-52-5	6mg/m ³ as dust	10mg/m^3 as dust	2-5	
	Section 3	3 - Hazards Ident	ification		
	ልኋኋኋ E	mergency Overview	· ☆☆☆☆☆		
1. Potential Health Effects HMIS H Primary Entry Routes: Skin H Acute Effects F Inhalation: unlikely unless heated F Eye: can cause irritation Skin: can cause irritation Skin: can cause irritation F Ingestion: Unknown Carcinogenicity: IARC, NTP, and OSHA do not list any components of this product as a carcinogen. Medical Conditions Aggravated by Long-Term Exposure: preexisting eye and skin disorders may be aggravated by exposure.					
	Section	a 4 - First Aid Me	asures		
Inhalation: Remove to Eye Contact: Flush wi Skin Contact: remove Launder contaminated Ingestion: seek medic After first aid, get appr	th water for 15 m with soap and wa clothing before re al attention	inutes: seek medical ter: if redness or ras use.	l attention sh develops seek med		

Section 5 - Fire-Fighting Measures Flash Point: >392 °F (200 °C) NFPA Flash Point Method: PMCC Flammability Classification: Non-Flammable Extinguishing Media: Foam, Dry Chemical, and Carbon Dioxide Unusual Fire or Explosion Hazards: None Hazardous Combustion Products: Oxides of Nitrogen and Carbon, Acids and Aldehydes when burned Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways. Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode. Section 6 - Accidental Release Measures **Spill /Leak Procedures Containment:** Dike and contain for later disposal. Do not release into sewers or waterways. Cleanup: Scrape up excess. Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120). **Section 7 - Handling and Storage** Handling Precautions: Avoid prolonged or repeated skin contact. Use good general housekeeping procedures.

Storage Requirements: Store in Closed containers. Use only with adequate ventilation.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSHapproved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Section 8 - Exposure Controls / Personal Protection (continued)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. **Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State:
Appearance and Odor: Translucent Paste; mild odor
Vapor Pressure: None (Polymeric Resin)
Vapor Density (Air=1): None
Specific Gravity (H2O=1, at 4 °C): 1.17

Water Solubility: negligible Boiling Point: None (Polymeric Resin) Freezing/Melting Point: None Evaporation Rate: None (Polymeric Resin) Viscosity: 18 poise

Section 10 - Stability and Reactivity

Stability: EA-40 Part A is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Strong oxidizing agents, strong Lewis or mineral acids.

Conditions to Avoid: Mixing with Amines under uncontrolled conditions.

Hazardous Decomposition Products: Thermal oxidative decomposition of EA-40 Part A can produce: Oxides of Nitrogen and Carbon, Acids and Aldehydes when burned.

Section 11 - Toxicological Information

Toxicity Data:*

Eye Effects: Irritation **Skin Effects:** Irritation

Carcinogenicity: None Mutagenicity: None Determined Teratogenicity: None Determined

Section 12 - Ecological Information

None Determined

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information				
DOT	IATA	IMDG		
Not Regulated	Not Regulated	Not Regulated		

Section 15 - Regulatory Information

EPA Regulations: This material in not considered a hazardous material. RCRA Hazardous Waste Number: Not listed (40 CFR 261.33): None RCRA Hazardous Waste Classification (40 CFR 261): Not classified CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112 CERCLA Reportable Quantity (RQ), None SARA 311/312 Codes: None SARA Toxic Chemical (40 CFR 372.65): None SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, TSCA Inventory Status (40CFR710): All components of this formula are on the TSCA inventory

<u>California Proposition 65</u>: This product contains a trace amount of Epichlorohydrin, which has been identified by the state California to cause cancer.

Section 16 - Other Information

Prepared By: Dominick J. Finocchio **Title:** Technical Director

Disclaimer: The information contained in this MSDS is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.



Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

EA-40

Date of Preparation: May 2, 2005

MSDS No. 25

Revision: 0008

Product/Chemical Name: H Other Designations: Formu General Use: Adhesive Manufacturer: Smooth-On (610) 252-58 Emergency Contact: Chem Domestic	lated Polyami Inc., 2000 St. 800, FAX (610	John St., Ea 0) 252-6200	ston PA	A 18042	
	al 813-248-0			T 1• 4	
	————			n on Ingredients	
OSHA Hazard Communica Component	CAS Number	ACGIH 7): Exposure Limits OSHA PEL	Weight Percent (%)
Polyamide	68082-29-1	None Estat	olished		85-95
Silica, Amorphous	67762-90-7	$6 \text{mg/m}^3 \text{ as}$		10mg/m^3 as dust	2-5
Triethylene Tetramine	112-24-3	None Estab			3-5
2,4.6 Tri (dimethyl) phenol	90-72-2	None Estab	olished	None Established	1-5
	Section 3	- Hazards	[dentif	ication	
	**** Emergency Overview ****				
Potential Health EffectsPrimary Entry Routes: Skin, inhalation of vaporsHMISAcute EffectsHInhalation: vapors are irritating to respiratory tract.FEye: can cause burnsRSkin: will cause burns: may cause sensitization after prolonged or repeated use.Ingestion: will cause severe damage to the mucous membranes if swallowed.Carcinogenicity IARC, NTP, and OSHA: IARC, NTP, and OSHA do not list any components of this product as a carcinogen.Medical Conditions Aggravated by Long-Term Exposure: preexisting eye and skin disorders may be aggravated by exposure					
Section 4 - First Aid Measures					
 Inhalation: Remove too fresh air; if breathing is labored seek medical attention. Eye Contact: Flush with water for 15 minutes; seek medical attention Skin Contact: remove with soap and water: if redness or rash develops seek medical attention: Launder contaminated clothing before reuse. Ingestion: do not induce vomiting; seek medical attention After first aid, get appropriate in-plant, paramedic, or community medical support. 					

Section 5 - Fire-Fighting Measures

Flash Point: >280 °F (138°C)

Flash Point Method: PMCC

Flammability Classification: Non-Flammable

Extinguishing Media: Foam, Dry Chemical, and Carbon Dioxide

Unusual Fire or Explosion Hazards: None

Hazardous Combustion Products: Oxides of Nitrogen and Carbon when burned Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures

Containment: Dike and contain for later disposal. Do not release into sewers or waterways. **Cleanup:** Scrape up excess.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Avoid prolonged or repeated eye and skin contact. Avoid breathing vapors and use only with adequate ventilation. Use good general housekeeping procedures. Storage Requirements: Store in Closed containers. Use only with adequate ventilation.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.



Section 8 - Exposure Controls / Personal Protection (continued)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. **Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State:
Appearance and Odor: Amber Gel; ammonia odor
Vapor Pressure: <1 @ 25°C
Vapor Density (Air=1): No Data
Specific Gravity (H2O=1, at 4 °C): 1.02 Water Solubility: negligible Boiling Point: None Freezing/Melting Point: None Determined Evaporation Rate: None Determined Viscosity (poise): 500

Section 10 - Stability and Reactivity

Stability: EA-40 Part B is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Strong oxidizing agents, strong Lewis or mineral acids.

Conditions to Avoid: Mixing with epoxies under uncontrolled conditions.

Hazardous Decomposition Products: Thermal oxidative decomposition of EA-40 Part B can produce: Oxides of Nitrogen and Carbon when burned.

Section 11- Toxicological Information

Toxicity Data:*

Eye Effects: can cause burns **Skin Effects:** will cause burns

Carcinogenicity: None Determined Mutagenicity: None Determined Teratogenicity: None Determined

Section 12 - Ecological Information

None Determined

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information				
DOT	IATA	IMDG		
Not Regulated	Not Regulated	Not Regulated		

Section 15 - Regulatory Information

EPA Regulations: This material in not considered a hazardous material. RCRA Hazardous Waste Number: Not listed (40 CFR 261.33): None RCRA Hazardous Waste Classification (40 CFR 261): Not classified CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112 CERCLA Reportable Quantity (RQ), None SARA 311/312 Codes: Health Hazard SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, TSCA Inventory Status (40CFR710): All components of this formula are on the TSCA inventory

State Regulations:

<u>California Proposition 65</u>: This product does not intentionally contain any chemicals, which have been identified by the state of California to cause cancer, birth defects or other reproductive harm.

Florida, Massachusetts and Pennsylvania Right To Know, Substance List:

Chemical Name	CAS #	<u>% by Weight</u>
Triethylene Tetramine	112-24-3	5.0 Max.

Section 16 - Other Information

Prepared By: Dominick J. Finocchio **Title:** Technical Director

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