Material Safety Data Sheet

EA-40 **MSDS No. 25**

Date of Preparation: September 18, 2007 Revision: 0009

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: EA-40 Part A
Other Designations: Formulated Epoxy
General Use: Adhesive
Manufacturer: Smooth-On Inc., 2000 St. John St., Easton PA 18042
(610) 252-5800, FAX (610) 252-6200
Emergency Contact: Chem-Tel
Domestic 800-255-3924
International 813-248-0585

Section 2 - Composition / Information on Ingredients

Component	CAS Number	ACGIH TWA	Exposure Limits OSHA PEL	Weight Percent (%)
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 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

HMIS	
H	2
F	1
R	0

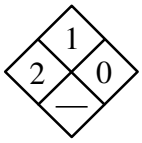
1. Potential Health Effects

Primary Entry Routes: Skin
Acute Effects
Inhalation: unlikely unless heated
Eye: can cause irritation
Skin: can cause irritation
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 4 - First Aid Measures

Inhalation: Remove to 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: seek medical attention
After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures



Flash Point: >392 °F (200 °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, 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/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: Translucent Paste; mild odor

Vapor Pressure: None (Polymeric Resin)

Vapor Density (Air=1): None

Specific Gravity (H_2O=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

Eye Effects: Irritation

Skin Effects: Irritation

Toxicity Data:*

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

States Right To Know, Substance List:

California Proposition 65: 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.

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

EA-40 **MSDS No. 25**

Date of Preparation: September 18, 2007 Revision: 0009

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: EA-40 Part B
Other Designations: Formulated Polyamine
General Use: Adhesive
Manufacturer: Smooth-On Inc., 2000 St. John St., Easton PA 18042
(610) 252-5800, FAX (610) 252-6200
Emergency Contact: Chem-Tel
Domestic 800-255-3924
International 813-248-0585

Section 2 - Composition / Information on Ingredients

OSHA Hazard Communication Standard 29CFR1910.1200:

Component	CAS Number	ACGIH TWA	Exposure Limits OSHA PEL	Weight Percent (%)
Polyamide	68082-29-1	None Established	None Established	**85-95**
Silica, Amorphous	67762-90-7	6mg/m^3 as dust	10mg/m^3 as dust	**2-5**
Triethylene Tetramine	112-24-3	None Established	None Established	**3-5**
2,4.6 Tri (dimethyl) phenol	90-72-2	None Established	None Established	**1-5**

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Potential Health Effects

HMIS	
H	2
F	1
R	0

Primary Entry Routes: Skin, inhalation of vapors
Acute Effects
Inhalation: vapors are irritating to respiratory tract.
Eye: can cause burns
Skin: 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 (H_2O=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

States Right To Know, Substance List:

California Proposition 65: 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.

Massachusetts and Pennsylvania:

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

Section 16 - Other Information

Prepared By: Dominick J. Finocchio
Title: Technical Director

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