



# Material Safety Data Sheet

## EpoxAmite 100 Resin and 103 Slow Hardener

Date Of Preparation: July 31, 2012

MSDS No. 3032  
Revision: 0005

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** EpoxAmite 100 Resin  
**Other Designations:** Formulated Epoxy  
**General Use:** Laminating, Adhesive and Casting Resin  
**Manufacturer:** Smooth-On Inc., 2000 St. John St., Easton PA 18042  
Phone (610) 252-5800, FAX (610) 252-6200  
**Emergency Contact:** Chem-Tel  
Domestic 800-255-3924  
International 813-248-0585

### Section 2- Hazards Identification

Not hazardous according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Council directive 1999/45/EC and its subsequent amendments.

| HMIS |   |
|------|---|
| H    | 1 |
| F    | 1 |
| R    | 0 |

### Section 3 - Composition / Information on Ingredients

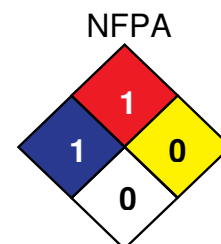
No hazardous ingredients

### 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:** >485 °F (252 °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

**Respiratory Protection:** Follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators. *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 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 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.



**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:** Liquid

**Appearance and Odor:** Water-White to Yellow; Faint Epoxy Odor

**Vapor Pressure:** None (Polymeric Resin)

**Vapor Density (Air=1):** None (Polymeric Resin)

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.14

**Water Solubility:** negligible

**Boiling Point:** None (Polymeric Resin)

**Freezing/Melting Point:** None (Polymeric Resin)

**Evaporation Rate:** None (Polymeric Resin)

**Viscosity:** 10 poise

## Section 10 - Stability and Reactivity

**Stability:** This product 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 Epoxy Resin EEW-190 can produce: Oxides of Nitrogen and Carbon, Acids and Aldehydes when burned.

### Section 11- Toxicological Information

**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**  
 Not Regulated

**IATA**  
 Not Regulated

**IMDG**  
 Not Regulated

### Section 15 - Regulatory Information

**EPA Regulations:** This material is 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

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.

## 16 - Other Information

**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.

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1907/2006/EEC (REACH). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European Union (EU/EEC) directive 1907/2006/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directives.



# Material Safety Data Sheet

## EpoxAmite 100 Resin and 103 Slow Hardener

Date Of Preparation: July 31, 2012

MSDS No. 3032  
Revision: 0005

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** 103 Slow Hardener  
**Other Designations:** Curing Agent, Epoxy  
**General Use:** Laminating, Adhesive and Casting Resin  
**Manufacturer:** Smooth-On Inc., 2000 St. John St., Easton PA 18042  
 Phone (610) 252-5800, FAX (610) 252-6200  
**Emergency Contact:** Chem-Tel  
 Domestic 800-255-3924  
 International 813-248-0585

### Section 2- Hazards Identification

#### Hazard Designation:



| HMIS |   |
|------|---|
| H    | 3 |
| F    | 1 |
| R    | 0 |

C: Corrosive      N: Dangerous for the environment

#### Risk Phrases pertaining to particular dangers

**R35:** Causes burns.

**R22:** Harmful if swallowed

**R51/53:** Toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.

**Classified according to Articles 6 & of Directive 1999/45/EC**

### Section 3 - Hazards Identification

| Component  | ACGIH TWA        | Exposure Limits<br>OSHA PEL | Hazard<br>Designation | Weight Percent<br>(%) |
|--|------------------|-----------------------------|-----------------------|-----------------------|
| Methylenecyclohexanamine,4,4'<br>CAS Number: 1761-71-3<br>EINECS Number: 217-168-8 | None Established | None Established            | C N                   | 65-70                 |
| Polyoxypropylene triamine<br>CAS Number: 39423-51-3<br>EINECS Number: 500-105-6    | None Established | None Established            | Not Classified        | 30-35                 |

### 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:** 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:** 347°F (175°C)

**Flammability Classification:** Combustible Liquid, Class III

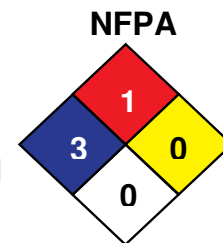
**Extinguishing Media:** Foam, Dry Chemical, and Carbon Dioxide

**Unusual Fire or Explosion Hazards:** None

**Hazardous Combustion Products:** May generate Ammonia gas, 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:** Cover minor spills with sodium bisulfate to neutralize and reduce vapors. Spray with water. Place in metal containers for recovery or disposal. Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing.

**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:** Keep away from oxidizers. Store in Closed containers. Use only with adequate ventilation.

## Section 8 - Exposure Controls / Personal Protection

**Respiratory Protection:** Follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators. *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 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.



**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:** Light Amber liquid,  
ammonia odor

**Vapor Pressure:** <1 mm/Hg @ 21 °C

**Vapor Density (Air=1):** >1

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 0.96

**Water Solubility:** No Data

**Boiling Point:** No Data

**Freezing/Melting Point:** No Data

**Evaporation Rate:** No Data

**pH:** No Data

## Section 10 - Stability and Reactivity

**Stability:** This material 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 can produce: Ammonia gas, Oxides of Nitrogen and Carbon when burned. Combustion of product under oxygen-starved conditions can be expected to produce numerous toxic products including nitriles, cyanic acid, isocyanates, cyanogens, nitrosamines, amides, and carbamates.

## Section 11- Toxicological Information

**Eye Effects:** will cause burns

**Skin Effects:** will cause burns

**Acute Toxicity Effects Data:**

Oral LD50 (rat): 625 mg/kg

Dermal LD50 (rabbit): 2,110 mg/kg

**Mutagenicity:** No Data

**Teratogenicity:** No Data

## Section 12 - Ecological Information

**Ectotoxicity Effects Data:**

Fish: LC50 (96h) 46-100 mg/l

Algae: EC50(72h) 140-200 mg/l

## 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****Shipping Name:**

Amines, liquid, corrosive, n.o.s.  
(4, 4' Methylenebiscyclohexanamine  
and Polyoxypropylene triamine)

**UN #:** 2735

**Hazard Class:** 8

**Packing Group:** II

**Label:** Corrosive

**IATA****Shipping Name:**

Amines, liquid, corrosive, n.o.s.  
(4, 4' Methylenebiscyclohexanamine  
and Polyoxypropylene triamine)

**UN #:** 2735

**Hazard Class:** 8

**Packing Group:** II

**Label:** Corrosive

**IMDG****Shipping Name:**

Amines, liquid, corrosive, n.o.s.  
(4, 4' Methylenebiscyclohexanamine  
and Polyoxypropylene triamine)

**UN #:** 2735

**Hazard Class:** 8

**Packing Group:** II

**Label:** Corrosive

## Section 15 - Regulatory Information

### EPA REGULATIONS:

**SARA 312 ( 40 CFR #70) Hazard Classification:** Acute Health Hazard, Chronic Health Hazard

**SARA Title III Section 313 (40 CFR 372):** None

**TSCA Inventory Status (40CFR710):** All components of this formula are on the TSCA inventory

**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.

### CANADIAN REGULATIONS:

WHMIS Identification: Class E

CDSL/NDL (Canadian Domestic Substance List/Non Domestic Substance List): **Listed on CDSL**



### Labeling according to EEC Directive

| Risk Phrases  | Symbol(s) Required for EU Label   | Safety Phrases   |
|---|---|--|
| <p><b>R35:</b> Causes burns.<br/> <b>R22:</b> Harmful if swallowed<br/> <b>R51/53:</b> Toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.</p> | <p><b>C: Corrosive</b></p> <p><b>N: Dangerous for the environment</b></p> | <p><b>S1/2:</b> Keep locked up and out of reach of children<br/> <b>S26:</b> In case of contact with eyes, rinse immediately with plenty of water and seek medical advice<br/> <b>S36/37/39:</b> Wear suitable protective clothing, gloves, and eye face/protection.<br/> <b>S45:</b> In case of an accident or if you feel sick, seek medical attention.<br/> <b>S61:</b> Avoid release to the environment.</p> |

## 16 - Other Information

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