Material Safety Data Sheet
EpoxAmite 100 Resin and 102 Medium Hardener

Date Of Preparation: September 11, 2013
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:
          Domestic  800-255-3924
          International  813-248-0585

Section 2- Hazards Identification

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
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 Standard EN 149; wear an MSHA/NIOSH or European Standard EN149 approved respirator.

**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 (H2O=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

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye Effects</strong></td>
<td>Irritation</td>
</tr>
<tr>
<td><strong>Skin Effects</strong></td>
<td>Irritation</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td>None Determined</td>
</tr>
<tr>
<td><strong>Teratogenicity</strong></td>
<td>None Determined</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>DOT</th>
<th>IATA</th>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Regulated</td>
<td>Not Regulated</td>
<td>Not Regulated</td>
</tr>
</tbody>
</table>

### 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

**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.

Material Safety Data Sheet

EpoxAmite 100 Resin and 102 Medium Hardener

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: 102 Medium 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:
Domestic 800-255-3924
International 813-248-0585

Section 2 - Hazards Identification

Hazard Designation:

Europe  Canada

Xi: Irritant  N: Dangerous for the environment

Risk Phrases pertaining to particular dangers
R22: Harmful if swallowed.
R36: Irritating to eyes.
R37: Irritating to respiratory system.
R38: Irritating to skin.

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

Section 3 - Hazards Identification

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TWA</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teta, reaction products with propylene oxide</td>
<td>None Established</td>
<td>None Established</td>
</tr>
<tr>
<td>CAS Number: 26950-63-0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EINECS Number: 500-055-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyoxypropylene triamine</td>
<td>None Established</td>
<td>None Established</td>
</tr>
<tr>
<td>CAS Number: 39423-51-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EINECS Number: 500-105-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>None Established</td>
<td>None Established</td>
</tr>
<tr>
<td>CAS Number: 112-24-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EINECS Number: 203-950-6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

EpoxAmite 102 Hardener 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: | Water Solubility: No Data |
| Appearance and Odor: | | Boiling Point: No Data |
| Light Amber liquid, ammonia odor | Vapor Pressure: <1 mm/Hg @ 21 °C |
| Vapor Pressure: | Vapor Density (Air=1): >1 |
| Specific Gravity (H2O=1, at 4 °C): | | Specific Gravity (H2O=1, at 4 °C): 1.01 |
| | 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: Irritant
Skin Effects: Irritant

Acute Toxicity Effects Data:
Oral LD50 (rat): 500 mg/kg
Dermal LD50 (rabbit): >1000 mg/kg

Mutagenicity: No Data
Teratogenicity: No Data

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

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</table>

Shipping Name:
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Polyoxypropylene triamine and Triethylenetetramine)
UN #: 3082
Hazard Class: 9
Label: Miscellaneous
Marine Pollutant

Shipping Name:
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(Polyoxypropylene triamine and Triethylenetetramine)
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Hazard Class: 9
Label: Miscellaneous
Marine Pollutant
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: D2A, D2B

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

Labeling according to EEC Directive

<table>
<thead>
<tr>
<th>Risk Phrases</th>
<th>Symbol(s) Required for EU Label</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>R22: Harmful if swallowed.</td>
<td></td>
<td>S1/2: Keep locked up and out of reach of children</td>
</tr>
<tr>
<td>R36: Irritating to eyes</td>
<td>X</td>
<td>S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice</td>
</tr>
<tr>
<td>R37: Irritating to respiratory system.</td>
<td>Xi: Irritant</td>
<td>S36/37/38: Wear suitable protective clothing, gloves, and eye face/protection.</td>
</tr>
<tr>
<td>R38: Irritating to skin</td>
<td></td>
<td>S45: In case of an accident or if you feel sick, seek medical attention.</td>
</tr>
<tr>
<td></td>
<td>N: Dangerous for the environment</td>
<td>S61: Avoid release to the environment.</td>
</tr>
</tbody>
</table>

16 - Other Information

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