



# Material Safety Data Sheet

Epoxy Resin EEW-190

MSDS No. 928

Date of Preparation: September 27, 2010

Revision: 0009

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Epoxy Resin EEW-190

**General Use:** Epoxy 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

Europe

Canada



| HMIS |   |
|------|---|
| H    | 1 |
| F    | 1 |
| R    | 2 |

Xi: Irritant N: Dangerous for the environment

### Information pertaining to particular dangers

**R36/38:** Irritating to eyes and skin.

**R43:** May cause sensitization by skin contact.

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

Classified according to Articles 6 & 7 of Directive 1999/45/EC

## Section 3 - Composition / Information on Ingredients

| Component   | ACGIH TWA           | OSHA PEL            | Hazard Designation | Weight Percent (%) |
|---|---------------------|---------------------|--------------------|--------------------|
| Diglycidyl Ether of Bisphenol A<br>CAS Number: 25068-38-6<br>EINECS Number: 500-033-5 | None<br>Established | None<br>Established | Xi  N              | 100%               |

## Section 4 - First Aid Measures

**Inhalation:** Remove source(s) of contamination and move victim to fresh air.

**Eye Contact:** Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact:** In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and launder before reuse.

**Ingestion:** Do not induce vomiting unless instructed by a physician. Contact physician immediately.

**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

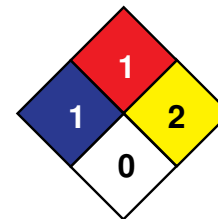
**Extinguishing Media:** Foam, Dry Chemical, and Carbon Dioxide

**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:** Dike and contain spill; absorb or scrape up excess into suitable container for disposal. Stop or reduce discharge if it can be done safely.

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

## Section 7 - Handling and Storage

**Handling Precautions:** Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Use good general housekeeping procedures.

**Storage Requirements:** Store in cool dry, well-ventilated area.

## 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. *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

|   |  |
|---|--|
| <p><b>Physical State:</b> Liquid to Semi-Solid</p> <p><b>Appearance and Odor:</b> Water-White to Yellow; Faint Epoxy Odor</p> <p><b>Vapor Pressure:</b> None (Polymeric Resin)</p> <p><b>Vapor Density (Air=1):</b> None (Polymeric Resin)</p> <p><b>Specific Gravity (H<sub>2</sub>O=1, at 4 °C):</b> 1.16</p> | <p><b>Water Solubility:</b> negligible</p> <p><b>Boiling Point:</b> None (Polymeric Resin)</p> <p><b>Freezing/Melting Point:</b> None (Polymeric Resin)</p> <p><b>Viscosity:</b> 120 poise</p> |
|---|--|

## 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

|                  |                                  |
|------------------|----------------------------------|
| LD50 Oral        | LC50 Dermal                      |
| Rat: >5000 mg/kg | Rabbit: 20,000 mg/m <sup>3</sup> |

## Section 12 - Ecological Information

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10mg/L in the most sensitive species tested). Toxicity to aquatic species occurs at concentrations above material's water solubility.

### Fish Acute & Prolonged Toxicity

LC50, fathead minnow (*Pimephales promelas*), 96 h: 3.1 mg/l

Aquatic Invertebrate Acute Toxicity

EC50, water flea *Daphnia magna*, 48 h, immobilization: 1.4 - 1.7 mg/l

Toxicity to Micro-organisms

IC50; bacteria, Growth inhibition, 18 h: > 42.6 mg/l

## Section 13 - Disposal Considerations

**Disposal:** This material must be disposed of in accordance with applicable local regulations.

## Section 14 - Transport Information

|               |               |   |
|---------------|---------------|---|
| <b>DOT</b>    | <b>IATA</b>   | <b>IMDG</b>   |
| Not Regulated | Not Regulated | <p><b>Shipping Name:</b><br/>           ENVIRONMENTALLY<br/>           HAZARDOUS SUBSTANCE,<br/>           LIQUID, N.O.S.<br/>           (Epoxy Resin)<br/>           UN #: 3082<br/>           Hazard Class: 9<br/>           Label: <b>Marine Pollutant</b></p> |

## Section 15 - Regulatory Information

### United States EPA Regulations:

**US TSCA Inventory Status (40 CFR 710):** All components of this product are listed 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: **D2B**

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>R36/38:</b> Irritating to eyes and skin.</p> <p><b>R43:</b> May cause sensitization by skin contact.</p> <p><b>R51/53:</b> Toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.</p> | <br><b>Xi: Irritant</b><br><br><br><b>N: Dangerous for the environment</b> | <p><b>S26:</b> In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p><b>S36/37/39:</b> Wear suitable protective clothing, gloves and eye and face protection.</p> <p><b>S45:</b> In case of accident or if you feel unwell, seek medical advice</p> <p><b>S61:</b> Avoid release to the environment. (See MSDS).</p> |

## 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.