MATERIAL SAFETY DATA SHEET

 **FLOOR PREMIUM EPOXY PART B**

 Revision Date: 10 NOV 2013

**1. Product and Company Identification**

**Product Name** FLOOR PREMIUM EPOXY PART B

**Internal Code** 13957B

**Product Type** Hybrid Amine Hardener

**Product Use** Industrial/Commercial applications

**Manufacturer Advanced Surfacing Ind.,** LLC

900 East Clarendon Drive

 Dallas, TX 75203 USA

**Non-emergency**

**Telephone** 817-336-8404

**email advancedsurfacingind@gmail.com**

**Emergency Contact** **For Transportation Information:** CHEMTREC US Domestic 800-424-9300

CHEMTREC International 703-527-3887

 CANUTEC CA Domestic 613-996-6666

 **For Medical Information:** 800-360-2744

**2. Hazards Identification**

**Form** Viscous liquid

**Odor** Mild amine

**OSHA/HCS Status** Material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Emergency Overview** WARNING!

HARMFUL IN CONTACT WITH SKIN OR IF SWALLOWED. INHALATION MAY CAUSE HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND COULD LEAD TO UNCONSCIOUSNESS. CAUSES EYE IRRITATION. MAY CAUSE RESPIATORY TRACT AND SKIN IRRATATION.

**Potential Acute Health Effects**

**Inhalation** Can cause central nervous system (CNS) depression. Slightly irritating to the respiratory system.

**Ingestion** Harmful if swallowed. Can cause central nervous system (CNS) depression.

**Skin** Harmful in contact with skin. May be slightly irritating.

**Eyes** Severely irritating to the eyes. Risk of serious damage.

**Potential Chronic Health Effects**

**Chronic Effects** Contains material that can cause target organ damage.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

**Teratogenicity** Contains material which may cause birth defects, based on animal data.

**Developmental Defects** No known significant effects or critical hazards.

**Fertility Effects** No known significant effects or critical hazards.

**Target Organs** Contains material which causes damage to the following organs: blood, central nervous system (CNS).

Review Section 11 for any additional assessments.

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**Over-exposure signs/symptoms**

**Inhalation** Adverse symptoms may include the following: Nausea or vomiting, respiratory tract irritation, coughing,

headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness.

**Ingestion** Adverse symptoms may include the following: Nausea or vomiting, , drowsiness/fatigue, dizziness/vertigo, unconsciousness.

**Skin** Adverse symptoms may include the following: Irritation, redness.

**Eyes** Adverse symptoms may include the following: Pain or irritation, watering, redness.

**Medical conditions aggravated by over-exposure**

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggregated by over-exposure to this product.

See Section 11 for more detailed information on health effects and symptoms.

**3. Composition/Information on Ingredients**

**Ingredient Name CAS Number Percentage by Weight**

Aliphatic polyamine (proprietary) 60.0-70.0

Diethylenetriamine (DETA) 111-40-0 5.0-10.0

Phenol, 4,4'-(1-methylethylidene)bis- 80-05-7 2.0-5.0

Poly(oxi-1,2-ethylenediyl) Alpha- (nonylphenyl)- 25265-71-8 30.0-40.0

Omega-hydroxy Glycol Ether

**4. First Aid Measures**

**Eye Contact** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention. Chemical burns must be treated

promptly by a physician.

**Skin Contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. If not breathing, if breathing

is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately. Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing with water before removing it, or wear gloves. Continue to rinse for at least ten minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation** Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus .Keep person warm and at rest. If not breathing, if breathingis irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation (CPR) immediately. It may be dangerous to the aid provider to give mouth-to-mouth resuscitation. If unconscious, place in a recovery position, maintain an open airway, and seek medical attention immediately.

**Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Protection of First Aid Personnel**

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. If it is suspected that dust, vapor, mist, or gas are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

**Notes to Physician** No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See Section 11 for more detailed information on health effects and symptoms.

**5. Fire-fighting Measures**

**Flammability of the Product**

In a fire or if heated, a pressure increase will occur and the container may burst.

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**EXTINGUISHING MEDIA**

**Suitable** Use an extinguishing agent suitable for the SURROUNDING fire.

**Not suitable** None known.

**Special Exposure Hazards**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

**Hazardous Combustion Products** Decomposition products may include the following materials: AMMONIA GAS, NITROGEN OXIDE GAS. Use of water may result in the formation of very hazardous aqueous solutions.

**Special Protective Equipment for Fire-fighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive-pressure mode.

**6. Accidental Release Measures**

**Personal Precautions** No action shall be taken involving any personal risk, or without suitable training.

 Evacuate surroundingareas and keep unnecessary and unprotected personnel from entering.

 Do not touch or walk through spilled material. Wear appropriate personal protective equipment.

 Do not breathe dust, vapor, mist, or gas. Provide adequate ventilation or wear an appropriate respirator when ventilation is inadequate.

**Environmental Precautions**

Avoid dispersal of spilled material and run-off and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

**Large Spill** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into

sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or

 proceed as follows:

 Contain and collect spillage with non-combustible, absorbent material (sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local regulations.

 Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled material.

 See Section 1 for emergency information, and Section 13 for waste disposal.

**Small Spill** Stop leak if without risk. Move container from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container for subsequent disposal by a licensed waste material contractor.

**7. Handling and Storage**

**Handling** Put on appropriate personal protective equipment (see Section 8). Eating, drinking, and smoking should be

 prohibited in areas where this material is handled, stored, and processed. Use only with adequate ventilation, or wear appropriate respirator when ventilation is inadequate. Do not breathe dust, vapor, mist, or gas. Workers should wash hands before eating, drinking, or smoking. Do not ingest. Do not get in eyes, or on skin or clothing. Avoid exposure during pregnancy.

 Keep in the original container or an approved alternative made from compatible material, kept tightly closed

 when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** Store in accordance with local regulations. Store in original container protected from direct sunlight in a cool,

 dry and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep

 container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment

 to avoid environmental contamination.

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**8. Exposure Controls/ Personal Protection**

**Consult local authorities for acceptable exposure limits.**

**Recommended Monitoring Procedures** If this product contains ingredients with exposure limits, personal, workplace atmosphere

 or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use the respiratory protective equipment.

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**Engineering Measures** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering

 controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene Measures** Wash hands, forearms, and face thoroughly after handling chemical products, before eating smoking, and using

 the lavatory, and at the end of the working period**.** Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

 showers are close to the workstation location.

**Respiratory** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels**,**

the hazards of the product, and the safe working limits of the respirator.

**Hands** Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when

 handling chemical products if a risk assessment indicates this is necessary.

**Eyes** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this

 is necessary to avoid exposure to liquid splashes, mists, or dusts.

**Skin** Personal protective equipment for the body should be selected based on the task being performed and the

 risks involved and should be approved by a specialist before handling this product.

**Environmental Exposure Control** Emissions from the ventilation or work process equipment should be checked to ensure they comply with requirements of environmental protection legislation. In some cases filters or other engineering modifications to the process may be necessary to reduce emissions to an acceptable level.

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**9. Physical and Chemical Properties**

**BASIC PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** Heavy liquid

**Physical State** Viscous liquid

**Color** Pale amber

**Odor**  Mild amine

**Odor Threshold** Not available

**pH** n/a

**Freezing Point** n/a

**Boiling Point** 150 degrees C (302 F)

**Flash Point** Greater than 93 degrees C (200 F) Setaflash Closed Cup (ASTM D 3828)

**Evaporation Rate** Not available

**Flammable Limits**

 **Upper:** Not available

 **Lower:** Not available

**Vapor Pressure** Less than 5.0 mm Hg @ 20 degrees C (68 F)

**Vapor Density** 0.98 g/cc @ 20 degrees C (68 F)

**Relative Density** 1.05

**Solubility** Slightly soluble

**Partition Coefficient**

 **n-octanol/water** Not available

**Auto-ignition Temp.** Not available

**Decomposition Temp.** Not available

**Viscosity >5**,000 KU @ 25 degrees C

**Typical % Solids** 99.0-100.00

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**10. Stability and Reactivity**

**Reactivity** Stable under normal conditions. Can corrode

**Stability** This product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to Avoid** Avoid exposure. Obtain special instructions before use. STRONG OXIDIZER. Avoid extremes of

 temperature and sunlight, and all possible sources of ignition (spark or flame).

**Materials to Avoid** Reactive or incompatible with the following materials: Strong oxidizing agents, strong acids, strong alkalis.

**Other Hazards** Reacts with considerable heat release with some curing agents.

**Hazardous Decomposition Products** Oxides of carbon, oxides of nitrogen, Ammonia, Aldehydes, Nitric Acid, Chlorine, Nitrosamine.

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**11. Toxicological Information**

**Acute Toxicity**

 **Ingredient Name** Ethylene Glycol Monopropyl Ether

 LD50 Oral Rat 3,086 mg/kg

 LD50 Oral Mouse 1,774 mg/kg

 LC50 Inhalation Mouse 1530 ppm/7 h

 (Vapor)

 LD50 Dermal Rabbit 2,000 mg/kg

**Other Toxicological Information**

 **Carcinogenicity**

 **Ingredient Name** None applicable (No classifications or listings for any component) by ACGIH, IARC, N TP, or OSHA.

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**12. Ecological Information**

**Environmental Effects** No known significant effects or critical hazards. See Sections 6, 7, and 8 for specific environmental control and protection information.

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**13. Disposal Considerations**

**Waste Disposal** The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non- recyclable products via a licensed waste-disposal contractor. Disposal of this product, solutions, and any by- products should at all times comply with the requirements of environmental protection and waste disposal

 legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

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**14. Transport Information**

**INTERNATIONAL TRANSPORT REGULATIONS**

**Regulatory information UN/NA Number Proper Shipping Name Classes/ Packing Group Reportable Quantity**

 **CFR** Non-regulated

 **TDG** Non-regulated

 **IMO/IMDG** Non-regulated

 **IATA (Cargo)** Non-regulated

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**15. Regulatory Information**

**US Regulations**

**HCS Classification** Irritating material. Sensitizer, Corrosive

**US Federal Regulations**

 **SARA 311/312 Classification:** Immediate (acute) health hazard. Delayed (chronic) health hazard.

 **SARA 313 Supplier Notification:** This product contains the following toxic chemical(s) subject to the

 reporting requirements of Section313 of Title III of the Superfund Amendments and Reauthorization Act

 of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

 Component above "de minimus" level: **Phenol, 4,4'-(1-methylethylidene)bis-**

 **SARA 302 Extremely Hazardous Substances:** None required

**Canada**

**WHMIS (Canada)** Class D-1B: Material causing immediate and serious toxic effects. (Toxic)

 Class D-2B: Material causing other toxic effects.

**Canadian Lists Canadian NPRI:** None required

**Trade Secret** Component has been granted an exemption in Canada under HMIRC #7080, decision dated May 30, 2008.

**International Regulations** All components are listed or exempted in the chemical inventories of the following countries:

 Australia (AICS), Canada, China (IECSC), Japan, Korea, New Zealand (NZIoC), United States (TSCA 8b)

 Philippines Inventory (PICCS): Not determined.

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**16. Other Information**

**Hazardous Material Health** **3**

**Information System III Flammability 1**

**(United States) Physical Hazards 0**

 **Chronic \***

**Caution:** HMIS ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant

hazards or risks. Although HMIS ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS ratings are to be used with a fully implemented HMIS program. HMIS is a registered mark of the National Paint & Coatings Association (NPCA). HMIS materials may be purchased exclusively from J. J> Keller (800 225-4778).

The customer is responsible for determining the PPE code for this material.

**Prepared By Advanced Surfacing Ind.,** LLC, Dallas, TX. Charles Newcomb, Regulatory Consultant

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**Version** 1.1

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