1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO-SET® M1042 Resin
PRODUCT CODE: M1042
CHEMICAL FAMILY: Epoxy Resin.
CHEMICAL NAME: Modified bisphenol-A based epoxy resin.
FORMULA: Not applicable.

MANUFACTURER: Gougeon Brothers, Inc.
100 Patterson Avenue
Bay City, MI 48706, U.S.A.
Phone: 888-377-6738 or 989-684-7286
www.prosetepoxy.com

EMERGENCY TELEPHONE NUMBERS:
Transportation CHEMTREC: 800-424-9300 (U.S.)
Non-transportation 703-527-3887 (International)
Poison Hotline: 800-222-1222

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
DANGER May cause skin irritation. May cause allergic reaction. May cause genetic defects. Suspected of damaging fertility or the unborn child. Store locked up with restricted access. Read and understand special handling instructions and all safety information before use. Clear to off-white liquid with mild odor.

PRIMARY ROUTE(S) OF ENTRY: Skin contact, inhalation.

POTENTIAL HEALTH EFFECTS:

ACUTE INHALATION: At room temperature, exposure to vapor is low due to low volatility. If product is heated, vapors generated can cause headache, nausea, possible respiratory irritation if inhaled in high concentrations.

CHRONIC INHALATION: Repeated exposure to high vapor concentrations may cause irritation of pre-existing lung allergies and increase the chance of developing allergy symptoms to this product.

ACUTE SKIN CONTACT: May cause allergic skin response in certain individuals. May cause moderate irritation to the skin such as redness and itching.

CHRONIC SKIN CONTACT: May cause sensitization in susceptible individuals. May cause moderate irritation to the skin.

EYE CONTACT: May cause irritation.

INGESTION: Low acute oral toxicity. Not anticipated to be a primary route of exposure. Acute effects not anticipated from swallowing small amounts as a result of normal conditions of use.

SYMPTOMS OF OVEREXPOSURE: Possible sensitization and subsequent allergic reactions usually seen as redness and rashes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin and respiratory disorders may be aggravated by exposure to this product. Pre-existing lung and skin allergies may increase the chance of developing allergic symptoms to this product. Pre-existing liver and kidney disorders.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS #</th>
<th>CONCENTRATION (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers</td>
<td>25085-99-8</td>
<td>60-100</td>
</tr>
<tr>
<td>Phenol-formaldehyde polymer glycidyl ether</td>
<td>28064-14-4</td>
<td>5-15</td>
</tr>
<tr>
<td>Dimethyl methylphosphonate</td>
<td>756-79-6</td>
<td>1-10</td>
</tr>
<tr>
<td>Modified Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers</td>
<td>68610-41-3</td>
<td>1-10</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

FIRST AID FOR EYES: Flush immediately with water for at least 15 minutes. Consult a physician.
FIRST AID FOR SKIN: Remove contaminated clothing. Wipe excess from skin. Lather with waterless skin cleaner and then wash with warm soap and water. If irritation occurs, get medical attention.

FIRST AID FOR INHALATION: Remove to fresh air and rest if effects occur. Seek medical attention if symptoms persist.

FIRST AID FOR INGESTION: If symptoms develop and persist, seek medical attention.

5. FIRE FIGHTING MEASURES

FLASH POINT: > 260°F (estimated based on component data)

EXTINGUISHING MEDIA: Foam, carbon dioxide (CO₂) or dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Wear complete fire fighting gear and self-contained breathing apparatus. Cool fire-exposed containers with water spray. Material is not readily combustible unless preheated.

FIRE AND EXPLOSION HAZARDS: During a fire, smoke may contain the original materials in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: phenolics, carbon monoxide, carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: Stop leak without additional risk. Dike and absorb with inert material (e.g., sand) and collect in a suitable, closed container. Warm, soapy water or non-flammable, safe solvent may be used to clean residual.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE (MIN./MAX.): 40°F (4°C) / 90°F (32°C)

STORAGE: Store in tightly closed containers to prevent moisture absorption and loss of volatiles. Store away from heat and open flame. Store in a secure environment accessible only to trained and authorized personnel or under lock and key.

HANDLING PRECAUTIONS: Ventilate work area. Avoid skin contact. Wash skin thoroughly after handling. Discard contaminated clothing rather than attempt to launder. Precautionary steps should be taken when curing product in large quantities. When mixed with epoxy curing agents this product causes an exothermic, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION REQUIREMENTS: Wear safety glasses with side shields or chemical splash goggles when exposure is more likely.

SKIN PROTECTION GUIDELINES: Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.

RESPIRATORY/VENTILATION REQUIREMENTS: Use ventilation or respiratory protection to minimize exposure. If ventilation is not determined to be adequate, use of a NIOSH/MSHA approved respirator with an organic vapor cartridge may be recommended. Refer to OSHA 1910.134, your protective equipment supplier, or other knowledgeable experts for specific recommendations based on your workplace conditions.

Note: Gougeon Brothers, Inc. has conducted an air sampling study using this product or similarly formulated products. The results indicate that the components sampled for (epichlorohydrin) were either so low that they were not detected at all or they were well below OSHA's permissible exposure levels.

ADDITIONAL PROTECTIVE MEASURES: Wash thoroughly after handling. Avoid breathing vapors from heated material. Protective skin cream barriers can be applied to hands in addition to gloves for added protection. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

OCCUPATIONAL EXPOSURE LIMITS: Not established for product as whole. Refer to OSHA's Permissible Exposure Level (PEL) or the ACGIH Guidelines for information on specific ingredients.

9. PHYSICAL AND CHEMICAL PROPERTIES
10. STABILITY AND REACTIVITY

STABILITY:.................................................................Stable.

HAZARDOUS POLYMERIZATION:.................................Will not occur by itself, but masses of more than one pound of product
plus an aliphatic amine will cause irreversible polymerization with considerable heat buildup.

INCOMPATIBILITIES: ....................................................Strong acids and oxidizing agents.

DECOMPOSITION PRODUCTS: .....................................Carbon monoxide, carbon dioxide and phenolics may be produced
during uncontrolled exothermic reactions or when otherwise heated to decomposition.

11. TOXICOLOGICAL INFORMATION

No specific oral, inhalation or dermal toxicity data is known for this product. Specific toxicity information for certain
components of this product are indicated below:

Oral: .........................................................LD$_{50}$ >5000 mg/kg (rats)
Inhalation: ......................................................No Data.
Dermal: ..............................................................LD$_{50}$ = 20,000 mg/kg (skin absorption in rabbits)

TERATOLOGY: .......................................................Diglycidyl ether of bisphenol-A (DGEBA) did not cause birth defects or other
adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant
rats or rabbits were exposed orally. Trimethyl Phosphate, present in this product at < 0.1%, may be attributed to birth defects.

REPRODUCTIVE EFFECTS: ........................................DGEBA, in animal studies, has been shown not to interfere with
reproduction.

MUTAGENICITY: .....................................................DGEBA in animal mutagenicity studies were negative. In vitro
mutagenicity studies were negative in some cases and positive in others. Based on animal studies, Trimethyl Phosphate, present in this
product at < 0.1%, may cause irreversible genetic defects. Dimethyl Methylphosphonate may cause irreversible genetic defects.

Dimethyl methylphosphonate was not mutagenic in bacteria. This substance was mutagenic in the mammalian cell culture test system.
The substance was mutagenic in studies with animals.

CARCINOGENICITY:

NTP .................................................................Product not listed.
IARC ...............................................................Product not listed.
OSHA ...............................................................Product not listed.

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by
OSHA, NTP or IARC.

Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol-A. Although some weak
evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not
show that DGEBA is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research
on Cancer (IARC) has concluded that DGEBA is not classified as a carcinogen.

Epichlorohydrin, an impurity in this product (<5 ppm) has been reported to produce cancer in laboratory animals and to produce
mutagenic changes in bacteria and cultured human cells. It has been established by the International Agency for Research on
Cancer (IARC) as a probable human carcinogen (Group 2A) based on the following conclusions: human evidence – inadequate;
animal evidence – sufficient. It has been classified as an anticipated human carcinogen by the National Toxicology Program (NTP).

Note: It is unlikely that normal use of this product would result in measurable exposure concentrations to this substance.
Trimethyl Phosphate, present in this product at < 0.1%, is suspected of being able to cause cancer. There is limited evidence of carcinogenicity in animal studies.

12. ECOLOGICAL INFORMATION

Prevent entry into sewers and natural waters. May cause localized fish kill.

Movement and Partitioning:
Bioconcentration potential is low (BCF less than 100 or Log Kow less than 3) based on a majority component.

Degradation and Transformation:
Biodegradation under aerobic static laboratory conditions is below detectable limits (i.e., BOD less than 2.5% of theoretical) in 20 days based on a majority component.

Ecotoxicology:
Material is moderately toxic to aquatic organisms on an acute basis based on a majority component. LC_{50} between 0.1 and 1.0 mg/L in most sensitive species.

13. DISPOSAL CONSIDERATION

WASTE DISPOSAL METHOD: Evaluation of this product using RCRA criteria shows that it is not a hazardous waste, either by listing or characteristics, in its purchased form. It is the responsibility of the user to determine proper disposal methods.

Incinerate, recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

DOT Non-Bulk
SHIPPING NAME: Not regulated.
TECHNICAL SHIPPING NAME: Not applicable.
HAZARD CLASS: Not applicable.
U.N./N.A. NUMBER: Not applicable.
Packing GROUP: Not applicable.

ICAO/IATA
SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME: Epoxy Resin.
HAZARD CLASS: Class 9.
U.N. NUMBER: UN3082.
Packing GROUP: PG III.
MARINE POLLUTANT: Yes

IMDG
SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME: Epoxy Resin.
HAZARD CLASS: Class 9.
U.N. NUMBER: UN3082.
Packing GROUP: PG III.
EmS Number: F-A, S-F
MARINE POLLUTANT: Yes

15. REGULATORY INFORMATION

OSHA STATUS: Skin irritant; possible sensitizer; may cause genetic defects; possible target organ effects (liver and kidney) if prolonged overexposure.

TSCA STATUS: All components are listed on TSCA Inventory or otherwise comply with TSCA requirements.

Canada WHMIS Classification: D2B – Toxic material causing other toxic effects.

SARA TITLE III:
SECTION 313 TOXIC CHEMICALS: None (deminimus).

STATE REGULATORY INFORMATION:
The following chemicals are specifically listed or otherwise regulated by individual states. For details on your regulatory requirements you should contact the appropriate agency in your state.

<table>
<thead>
<tr>
<th>COMPONENT NAME /CAS NUMBER</th>
<th>CONCENTRATION</th>
<th>STATE CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epichlorohydrin 106-89-8</td>
<td>&lt; 5ppm</td>
<td>CA, MA, PA, RI</td>
</tr>
<tr>
<td>Trimethyl phosphate 512-56-1</td>
<td>&lt; 0.1%</td>
<td>CA, MA, PA, NJ</td>
</tr>
</tbody>
</table>

1. These substances are known to the state of California to cause cancer or reproductive harm, or both.

16. OTHER INFORMATION

REASON FOR ISSUE: New product.
PREPARED BY: G. M. House
APPROVED BY: G. M. House
TITLE: Health, Safety & Environmental Manager
APPROVAL DATE: April 1, 2014
SUPERSEDES DATE: NA
MSDS NUMBER: M1042-14a

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