

# PRO-SET® M1047 Resin

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 05/18/2017

Revision date: 01/25/2019

Version: M1047-2019a

### SECTION 1: Identification

#### Identification

**Product form** : Mixtures  
**Product name** : PRO-SET® M1047 Resin  
**Product code** : M1047

#### Relevant identified uses of the substance or mixture and uses advised against

**Recommended use** : Epoxy resin for adhesives, coatings and composites.

#### Details of the supplier of the safety data sheet

Gougeon Brothers, Inc  
100 Patterson Ave.  
Bay City, MI 48706 - U.S.A.  
T 888-377-6738 or 989-684-7286  
[www.prosetepoxy.com](http://www.prosetepoxy.com)

#### Emergency telephone number

**Emergency number** : CHEMTREC 1 (800) 424-9300  
CHEMTREC International +1 (703) 527-3887 24 hr

### SECTION 2: Hazard(s) identification

#### Classification of the substance or mixture

Skin Irrit. 2  
Eye Irrit. 2A  
Skin Sens. 1  
Aquatic Chronic 2

#### Label elements

#### Hazard pictograms (GHS)



GHS07

GHS09

#### Signal word (GHS)

Warning

#### Hazard statements (GHS)

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

#### Precautionary statements (GHS)

Avoid breathing dust, fume, gas, mist, spray, vapours, Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear eye protection, face protection, protective clothing, protective gloves. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### Other hazards

No additional information available

#### Unknown acute toxicity

No additional information available

### SECTION 3: Composition/information on ingredients

#### Substances

Not applicable

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### Mixtures

| Name  | Product identifier   | HPR %   |
|---|----------------------|---------|
| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer | (CAS-No.) 25085-99-8 | 65 - 85 |
| Formaldehyde, polymer with (chloromethyl)oxirane and phenol                         | (CAS-No.) 9003-36-5  | 10 - 30 |

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

## SECTION 4: First aid measures

### Description of first aid measures

- First-aid measures after inhalation** : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
- First-aid measures after ingestion** : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

### Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation** : May cause respiratory tract irritation.
- Symptoms/effects after skin contact** : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction.
- Symptoms/effects after eye contact** : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/effects after ingestion** : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

### Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Firefighting measures

### Extinguishing media

- Suitable extinguishing media** : Foam. Carbon dioxide. Dry chemical.
- Unsuitable extinguishing media** : Do not use a heavy water stream.

### Special hazards arising from the substance or mixture

- Fire hazard** : Products of combustion may include, and are not limited to: oxides of carbon. phenolics.
- Reactivity** : No dangerous reaction known under conditions of normal use.

### Advice for firefighters

- Protection during firefighting** : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- General measures** : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### For non-emergency personnel

No additional information available

### For emergency responders

No additional information available

### Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

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### Methods and material for containment and cleaning up

**For containment** : Stop leak if safe to do so. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for cleaning up** : Scoop up material and place in a disposal container. Provide ventilation.

### Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

## SECTION 7: Handling and storage

### Precautions for safe handling

**Precautions for safe handling** : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. When mixed with epoxy curing agents this product causes an exothermic reaction, 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.

**Hygiene measures** : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking. Contaminated work clothing should not be allowed out of the workplace.

### Conditions for safe storage, including any incompatibilities

**Storage conditions** : Keep out of the reach of children. Keep container tightly closed. Store in dry, cool, well-ventilated area. Protect from moisture. Storage temperature : 40°F (4°C) - 120°F (49°C).

## SECTION 8: Exposure controls/personal protection

### Control parameters

|   |
|---|
| <b>Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer (25085-99-8)</b> |
| Not applicable  |
| <b>Formaldehyde, polymer with (chloromethyl)oxirane and phenol (9003-36-5)</b>                          |
| Not applicable  |

### Exposure controls

**Appropriate engineering controls** : Ensure good ventilation of the work station.

**Hand protection** : Wear chemically resistant protective gloves.

**Eye protection** : Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).

**Skin and body protection** : Wear suitable protective clothing.

**Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Environmental exposure controls** : Avoid release to the environment.

**Other information** : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

**Physical state** : Liquid

**Appearance** : Viscous liquid

**Colour** : Colourless

**Odour** : Mild

**Odour threshold** : No data available

**pH** : No data available

**Melting point** : No data available

**Freezing point** : No data available

**Boiling point** : > 400 °F (204 °C) Estimated based on ingredient data

**Flash point** : > 200 °F (93 °C) Based on ASTM D92 test results from similar products

**Relative evaporation rate (butylacetate=1)** : No data available

**Flammability (solid, gas)** : No data available

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|                                       |   |
|---------------------------------------|---|
| Vapour pressure                       | : No data available                           |
| Relative vapour density at 20 °C      | : No data available                           |
| Relative density                      | : 1.16  |
| Solubility                            | : No data available                           |
| Partition coefficient n-octanol/water | : No data available                           |
| Auto-ignition temperature             | : No data available                           |
| Decomposition temperature             | : No data available                           |
| Viscosity, kinematic                  | : > 5000 mm <sup>2</sup> /s (71.6 °F / 22 °C) |
| Viscosity, dynamic                    | : No data available                           |
| Explosive limits                      | : No data available                           |
| Explosive properties                  | : No data available                           |
| Oxidising properties                  | : No data available                           |
| Other information                     |   |
| Bulk density                          | : 9.67 lb/gal (1.16 kg/L)                     |

### SECTION 10: Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : No dangerous reaction known under conditions of normal use.   |
| Chemical stability                 | : Stable under normal storage conditions.   |
| Possibility of hazardous reactions | : No dangerous reaction known under conditions of normal use. A mass of more than one pound of product plus an aliphatic amine will cause irreversible polymerization with significant heat buildup. Strong acids, bases, amines and mercaptans can cause polymerization. |
| Conditions to avoid                | : Heat. Incompatible materials.   |
| Incompatible materials             | : Strong acids. Bases. Amines. Mercaptans.  |
| Hazardous decomposition products   | : May include, and are not limited to: oxides of carbon. phenolics.   |

### SECTION 11: Toxicological information

#### Information on toxicological effects

| Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer (25085-99-8) |               |
|--|---------------|
| LD50 oral rat  | > 15000 mg/kg |
| LD50 dermal rabbit   | > 23000 mg/kg |

| Formaldehyde, polymer with (chloromethyl)oxirane and phenol (9003-36-5) |              |
|---|--------------|
| LD50 oral rat   | > 2000 mg/kg |
| LD50 dermal rabbit  | 2000 mg/kg   |

|                                   |  |
|-----------------------------------|--|
| Acute toxicity (oral)             | : Not classified.                      |
| Acute toxicity (dermal)           | : Not classified.                      |
| Acute toxicity (inhalation)       | : Not classified.                      |
| Skin corrosion/irritation         | : Causes skin irritation.              |
| Serious eye damage/irritation     | : Causes serious eye irritation.       |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified.                      |
| Carcinogenicity                   | : Not classified.                      |
| Reproductive toxicity             | : Not classified.                      |
| STOT-single exposure              | : Not classified.                      |
| STOT-repeated exposure            | : Not classified.                      |
| Aspiration hazard                 | : Not classified.                      |

| PRO-SET® M1047 Resin                    |   |
|---|---|
| Viscosity, kinematic (calculated value) | > 5000 mm <sup>2</sup> /s (71.6 °F / 22 °C) |

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : May cause respiratory tract irritation.   |
| Symptoms/effects after skin contact | : Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause an allergic skin reaction.                     |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |

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**Symptoms/effects after ingestion** : May be harmful if swallowed. May cause stomach distress, nausea or vomiting.  
**Other information** : Likely routes of exposure: ingestion, inhalation, skin and eye.

### SECTION 12: Ecological information

#### Toxicity

**Ecology - general** : Toxic to aquatic life with long lasting effects.

#### Persistence and degradability

| PRO-SET® M1047 Resin          |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

#### Bioaccumulative potential

| PRO-SET® M1047 Resin      |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

#### Mobility in soil

| PRO-SET® M1047 Resin |                                      |
|----------------------|--------------------------------------|
| Ecology - soil       | No additional information available. |

#### Other adverse effects

**Effect on the global warming** : No known effects from this product.

| Name  | CAS#       | Ecotoxicity Classification Information |
|---|------------|--|
| Oxirane, 2,2'-[[1-methylethylidene]bis(4,1-phenyleneoxymethylene)]bis-, homopolymer | 25085-99-8 | Aquatic Chronic Cat. 2                 |
| Formaldehyde, polymer with (chloromethyl)oxirane and phenol                         | 9003-36-5  | Aquatic Chronic Cat. 2                 |

**Other information** : Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not regulated

#### Transport by sea

In accordance with IMDG

UN-No. (IMDG) : 3082  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)  
Class (IMDG) : Miscellaneous dangerous substances and articles  
EmS Number : F-A, S-F  
Packing group (IMDG) : III  
Marine pollutant : Yes



#### Transport by air

In accordance with IATA

UN-No. (IATA) : 3082  
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)  
Class (IATA) : Miscellaneous Dangerous Goods  
Packing group (IATA) : III

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Marine pollutant :



### SECTION 15: Regulatory information

#### Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

#### Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis-, homopolymer (25085-99-8)

|                          |   |
|--------------------------|---|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
|--------------------------|---|

#### Formaldehyde, polymer with (chloromethyl)oxirane and phenol (9003-36-5)

|                          |   |
|--------------------------|---|
| EPA TSCA Regulatory Flag | XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)). |
|--------------------------|---|

#### US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

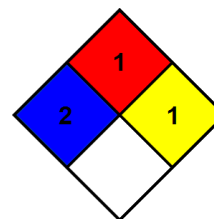
#### Epichlorohydrin (106-89-8)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) |
|---|---|---|---|-----------------------------------|
| Yes   | No  | No  | Yes   | 9 µg/day                          |

### SECTION 16: Other information

Date of issue : 05/18/2017  
Revision date : 01/25/2019  
Version : M1047-2019a  
Other information : None.

NFPA health hazard : 2  
NFPA fire hazard : 1  
NFPA reactivity : 1



Hazard Rating

Health : 2 Moderate Hazard  
Flammability : 1 Slight Hazard  
Physical : 1 Slight Hazard

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