



## 1 Identification

- **Product identifier**
- **Trade name:** 39767 Problem Plastic
- **Article number:** 39767
- **Application of the substance / the mixture** Adhesives
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SEM Products Inc.  
1685 Overview Drive  
Rock Hill, SC 29730  
803 207 8225
- **Information department:**  
cust\_care@semproducts.com : SEM Products, Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT
- **Emergency telephone number:** CHEMTREC 1-800-424-9300

## 2 Hazard identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Reproductive Toxicity - Category 1

H360 May damage fertility or the unborn child.



GHS07

Acute Toxicity (Oral) - Category 4

H302 Harmful if swallowed.

Skin Irritation - Category 2

H315 Causes skin irritation.

Eye Irritation - Category 2A

H319 Causes serious eye irritation.

Skin Sensitizer - Category 1

H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure - Category 3

H335 May cause respiratory irritation.

- **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

bisphenolA(chloro)oxirane polymer  
2,4,6-tris(dimethylaminomethyl)phenol  
CERAMIC MICROSPHERES  
dibutyl phthalate  
BISPHENOL F EPOXY RESIN

(Contd. on page 2)

# Safety Data Sheet

according to HPR, Schedule 1



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 39767 Problem Plastic

(Contd. of page 1)

1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

## · Hazard statements

- H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H360 May damage fertility or the unborn child.  
 H335 May cause respiratory irritation.

## · Precautionary statements

- P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P321 Specific treatment (see on this label).  
 P330 Rinse mouth.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## · Classification system:

## · NFPA ratings (scale 0 - 4)



Health = 1  
 Fire = 1  
 Reactivity = 0

## · HMIS-ratings (scale 0 - 4)



Health = 1  
 Fire = 1  
 Reactivity = 0

## 3 Composition/Information on ingredients

### · Chemical characterization: Mixtures

### · Description:

Mixture: consisting of the following components.  
 Weight percentages

(Contd. on page 3)

CA



**Trade name: 39767 Problem Plastic**

(Contd. of page 2)

|                                |   |              |
|--------------------------------|---|--------------|
| <b>· Dangerous components:</b> |   |              |
| 66402-68-4                     | CERAMIC MICROSPHERES                          | 10-30% w/w   |
|                                | Mercaptan Terminated Polymer NJTS 800938 5952 | 10-30% w/w   |
| 25068-38-6                     | bisphenolA(chloro)oxirane polymer             | 7-13% w/w    |
| 28064-14-4                     | BISPHENOL F EPOXY RESIN                       | 3-7% w/w     |
| 90-72-2                        | 2,4,6-tris(dimethylaminomethyl)phenol         | 1-5% w/w     |
| 68909-14-8                     | Modified diglycidal ether                     | 0.5-1.5% w/w |
| 84-74-2                        | dibutyl phthalate                             | ≤ 1% w/w     |
| 17557-23-2                     | 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane | ≤ 1% w/w     |

#### 4 First aid measures

· **Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** Immediately call a doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

#### 5 Firefighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

· **Special hazards arising from the substance or mixture** No further relevant information available.

· **Advice for firefighters**

· **Protective equipment:** No special measures required.

#### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.

· **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 4)



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 39767 Problem Plastic

(Contd. of page 3)

See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

### 84-74-2 dibutyl phthalate

|    |                                      |
|----|--------------------------------------|
| EL | Long-term value: 5 mg/m <sup>3</sup> |
| R  |                                      |
| EV | Long-term value: 5 mg/m <sup>3</sup> |

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 5)

CA

**Trade name: 39767 Problem Plastic**

(Contd. of page 4)

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

|                 |                                    |
|-----------------|------------------------------------|
| Form:           | Liquid                             |
| Color:          | According to product specification |
| Odor:           | Characteristic                     |
| Odor threshold: | Not determined.                    |

· **pH-value:** Not determined.

· **Change in condition**

|                              |               |
|------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | >260 °C       |

· **Flash point:** 218 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.  
In use, may form flammable/explosive vapour-air mixture.

· **Explosion limits:**

|        |                 |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

· **Vapor pressure:** Not determined.

|                   |                           |
|-------------------|---------------------------|
| Density at 20 °C: | 1.61119 g/cm <sup>3</sup> |
| Relative density  | Not determined.           |
| Vapor density     | Not determined.           |
| Evaporation rate  | Not determined.           |

· **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.

(Contd. on page 6)



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 39767 Problem Plastic

(Contd. of page 5)

- |   |                 |
|---|-----------------|
| · <b>Partition coefficient (n-octanol/water):</b> Not determined.     |                 |
| · <b>Viscosity:</b>   |                 |
| <b>Dynamic:</b>   | Not determined. |
| <b>Kinematic:</b>   | Not determined. |
| · <b>Solvent content:</b>   |                 |
| <b>Organic solvents:</b>  | 0.0 %           |
| <b>Water:</b>   | 0.1 %           |
| · <b>Solids content:</b> 98.9 %                                       |                 |
| · <b>Other information</b> No further relevant information available. |                 |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### 84-74-2 dibutyl phthalate

|        |      |                      |
|--------|------|----------------------|
| Oral   | LD50 | 8000 mg/kg (rat)     |
| Dermal | LD50 | 20000 mg/kg (rabbit) |

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:  
Harmful  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

|            |                                      |    |
|------------|--------------------------------------|----|
| 13463-67-7 | titanium dioxide                     | 2B |
| 14808-60-7 | Quartz (SiO <sub>2</sub> )           | 1  |
| 64-17-5    | ethanol                              | 1  |
| 7631-86-9  | silicon dioxide, chemically prepared | 3  |

(Contd. on page 7)

CA

# Safety Data Sheet

according to HPR, Schedule 1



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 39767 Problem Plastic

(Contd. of page 6)

· **NTP (National Toxicology Program)**14808-60-7 Quartz (SiO<sub>2</sub>)

K

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |                                       |                 |
|---------------------------------------|-----------------|
| · <b>UN-Number</b>                    |                 |
| · <b>DOT, TDG, ADN, IMDG, IATA</b>    | Void            |
| · <b>UN proper shipping name</b>      |                 |
| · <b>DOT, TDG, ADN, IMDG, IATA</b>    | Void            |
| · <b>Transport hazard class(es)</b>   |                 |
| · <b>DOT, TDG, ADN, IMDG, IATA</b>    |                 |
| · <b>Class</b>                        | Void            |
| · <b>Packing group</b>                |                 |
| · <b>DOT, TDG, IMDG, IATA</b>         | Void            |
| · <b>Environmental hazards:</b>       |                 |
| · <b>Marine pollutant:</b>            | No              |
| · <b>Special precautions for user</b> | Not applicable. |

(Contd. on page 8)

CA



# Safety Data Sheet

according to HPR, Schedule 1



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 39767 Problem Plastic

(Contd. of page 7)

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **UN "Model Regulation":** Void

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

68909-14-8 Modified diglycidal ether

84-74-2 dibutyl phthalate

107-21-1 ethanediol

67-56-1 methanol

· **TSCA (Toxic Substances Control Act):**

66402-68-4 CERAMIC MICROSPHERES

1317-65-3 GROUND CALCIUM CARBONATE

25068-38-6 bisphenolA(chloro)oxirane polymer

28064-14-4 BISPHENOL F EPOXY RESIN

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

13463-67-7 titanium dioxide

68909-14-8 Modified diglycidal ether

84-74-2 dibutyl phthalate

17557-23-2 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

280-57-9 triethylenediamine

919-30-2 3-aminopropyltriethoxysilane

2530-83-8 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

67762-90-7 FUMED SILICA

107-21-1 ethanediol

51274-00-1 YELLOW IRON OXIDE

14808-60-7 Quartz (SiO<sub>2</sub>)

64-17-5 ethanol

67-56-1 methanol

21645-51-2 aluminium hydroxide

7631-86-9 silicon dioxide, chemically prepared

7732-18-5 water

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

66402-68-4 CERAMIC MICROSPHERES

25068-38-6 bisphenolA(chloro)oxirane polymer

(Contd. on page 9)

CA



**Safety Data Sheet**  
according to HPR, Schedule 1



Printing date 06/20/2017

Reviewed on 06/20/2017

**Trade name: 39767 Problem Plastic**

(Contd. of page 8)

|            |   |
|------------|---|
| 28064-14-4 | BISPHENOL F EPOXY RESIN                       |
| 90-72-2    | 2,4,6-tris(dimethylaminomethyl)phenol         |
| 13463-67-7 | titanium dioxide                              |
| 68909-14-8 | Modified diglycidal ether                     |
| 84-74-2    | dibutyl phthalate                             |
| 17557-23-2 | 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane |
| 280-57-9   | triethylenediamine                            |
| 919-30-2   | 3-aminopropyltriethoxysilane                  |
| 2530-83-8  | [3-(2,3-epoxypropoxy)propyl]trimethoxysilane  |
| 67762-90-7 | FUMED SILICA                                  |
| 107-21-1   | ethanediol                                    |
| 51274-00-1 | YELLOW IRON OXIDE                             |
| 14808-60-7 | Quartz (SiO <sub>2</sub> )                    |
| 64-17-5    | ethanol                                       |
| 67-56-1    | methanol                                      |
| 21645-51-2 | aluminium hydroxide                           |
| 7631-86-9  | silicon dioxide, chemically prepared          |
| 7732-18-5  | water   |

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

bisphenolA(chloro)oxirane polymer  
2,4,6-tris(dimethylaminomethyl)phenol  
CERAMIC MICROSPHERES  
dibutyl phthalate  
BISPHENOL F EPOXY RESIN  
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane

· **Hazard statements**

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H360 May damage fertility or the unborn child.  
H335 May cause respiratory irritation.

(Contd. on page 10)

CA

# Safety Data Sheet

according to HPR, Schedule 1



Printing date 06/20/2017

Reviewed on 06/20/2017

Trade name: 39767 Problem Plastic

(Contd. of page 9)

## · Precautionary statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P330 Rinse mouth.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.

· **Contact:** Steve Gaver (sgaver@semproducts.com)

· **Date of preparation / last revision** 06/20/2017 / 9

### · Abbreviations and acronyms:

- ICAO: International Civil Aviation Organisation
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative

· **\* Data compared to the previous version altered.**

CA