

Safety Data Sheet

according to HPR, Schedule 1



Printing date 07/31/2018

Version number 8

Reviewed on 07/03/2018

1 Identification

- **Product identifier**
- **Trade name:** 39377 Seam Sealer
- **Article number:** 39377
- **Application of the substance / the mixture** Sealant
- **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

Carcinogenicity - Category 1A H350 May cause cancer.

Reproductive Toxicity - Category 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

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.

- **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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane

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

CASTOR OIL GLYCIDAL ETHER

- **Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

(Contd. on page 2)

CA

Safety Data Sheet

according to HPR, Schedule 1



Printing date 07/31/2018

Version number 8

Reviewed on 07/03/2018

Trade name: 39377 Seam Sealer

(Contd. of page 1)

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

· **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.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 If on skin: Wash with plenty of water.

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).

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

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 = 2

Fire = 1

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 2

Fire = 1

Reactivity = 0

3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**· **Description:**

Mixture: consisting of the following components.

Weight percentages

· **Dangerous components:**

25068-38-6	bisphenolA(chloro)oxirane polymer	15-40% w/w *
67762-90-7	FUMED SILICA	3-7% w/w *
26142-30-3	Epoxy Resin	1-5% w/w *
68909-14-8	Modified diglycidal ether	1-5% w/w *
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	≥1-<5% w/w *
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	≥1-<1.5% w/w *
74398-71-3	CASTOR OIL GLYCIDAL ETHER	≥0.1-<1% w/w *
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥0.1-<1% w/w *

(Contd. on page 3)

CA

Safety Data Sheet

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Version number 8

Reviewed on 07/03/2018

Trade name: 39377 Seam Sealer

(Contd. of page 2)

* Actual concentration ranges are withheld as a trade secret.

4 First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **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:** If symptoms persist consult 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:** No special measures required.
- **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.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.

(Contd. on page 4)

CA



Trade name: 39377 Seam Sealer

(Contd. of page 3)

- **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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **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.
Store protective clothing separately.
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.

- **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.

(Contd. on page 5)

CA

Safety Data Sheet

according to HPR, Schedule 1



Printing date 07/31/2018

Version number 8

Reviewed on 07/03/2018

Trade name: 39377 Seam Sealer

(Contd. of page 4)

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Color:	Dark grey
Odor:	Amine-like
Odor threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

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

· Flash point: 257 °C

· Flammability (solid, gaseous): Not applicable.

· 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:	1.2528 g/cm ³
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic at 20 °C:	160,000 mPas
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	0.0 %
Water:	0.1 %
VOC content:	0.00 %

(Contd. on page 6)

CA

Safety Data Sheet

according to HPR, Schedule 1



Printing date 07/31/2018

Version number 8

Reviewed on 07/03/2018

Trade name: 39377 Seam Sealer

(Contd. of page 5)

- **Solids content:** 99.6 %
- **Other information** 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:**
- **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:
Irritant
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

13463-67-7	titanium dioxide	2B
1333-86-4	Carbon black	2B
14808-60-7	Quartz (SiO ₂)	I
64-17-5	ethanol	I

· NTP (National Toxicology Program)

14808-60-7	Quartz (SiO ₂)	K
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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:** Generally not hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 7)

CA

Safety Data Sheet

according to HPR, Schedule 1



Printing date 07/31/2018

Version number 8

Reviewed on 07/03/2018

Trade name: 39377 Seam Sealer

(Contd. of page 6)

· **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 packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|--|
| · UN-Number | |
| · DOT | Void |
| · TDG, IMDG, IATA | UN3082 |
| · UN proper shipping name | |
| · DOT | Void |
| · TDG | 3082 Environmentally hazardous substances, liquid, n.o.s. |
| · IMDG, IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| · Transport hazard class(es) | |
| · DOT | |
| · Class | Void |
| · TDG, IMDG, IATA | |
| | |
| · Class | 9 Miscellaneous dangerous substances and articles |
| · Label | 9 |
| · Packing group | |
| · DOT | Void |
| · TDG, IMDG, IATA | III |
| · Environmental hazards: | Product contains environmentally hazardous substances: bisphenolA(chloro)oxirane polymer |
| · Marine pollutant: | Yes |
| · Special marking (TDG): | Symbol (fish and tree) |
| · Special marking (IATA): | Symbol (fish and tree) |
| · Special precautions for user | Warning: Miscellaneous dangerous substances and articles |
| · EMS Number: | F-A,S-F |
| · Stowage Category | A |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

(Contd. on page 8)

CA

Safety Data Sheet

according to HPR, Schedule 1



Printing date 07/31/2018

Version number 8

Reviewed on 07/03/2018

Trade name: 39377 Seam Sealer

(Contd. of page 7)

· **Transport/Additional information:**

· **DOT**

· **Remarks**

ORM-D 49CFR 173.150,156,306

· **TDG**

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **IMDG**

· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES,
LIQUID, N.O.S., 9, III

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

107-21-1 ethanediol

67-56-1 methanol

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

25068-38-6 bisphenolA(chloro)oxirane polymer

1317-65-3 GROUND CALCIUM CARBONATE

67762-90-7 FUMED SILICA

26142-30-3 Epoxy Resin

68909-14-8 Modified diglycidal ether

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

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

74398-71-3 CASTOR OIL GLYCIDAL ETHER

107-21-1 ethanediol

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

919-30-2 3-aminopropyltriethoxysilane

13463-67-7 titanium dioxide

1333-86-4 Carbon black

14808-60-7 Quartz (SiO₂)

67-56-1 methanol

64-17-5 ethanol

(Contd. on page 9)

CA

Safety Data Sheet

according to HPR, Schedule 1



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Version number 8

Reviewed on 07/03/2018

Trade name: 39377 Seam Sealer

(Contd. of page 8)

7732-18-5 water

· **Canadian substance listings:**

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

25068-38-6	bisphenolA(chloro)oxirane polymer
67762-90-7	FUMED SILICA
26142-30-3	Epoxy Resin
68909-14-8	Modified diglycidal ether
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane
74398-71-3	CASTOR OIL GLYCIDAL ETHER
107-21-1	ethanediol
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
919-30-2	3-aminopropyltriethoxysilane
13463-67-7	titanium dioxide
1333-86-4	Carbon black
14808-60-7	Quartz (SiO ₂)
67-56-1	methanol
64-17-5	ethanol
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
 [3-(2,3-epoxypropoxy)propyl]trimethoxysilane
 1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane
 CASTOR OIL GLYCIDAL ETHER

· **Hazard statements**

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
 H350 May cause cancer.
 H361 Suspected of damaging fertility or the unborn child.

· **Precautionary statements**

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.

(Contd. on page 10)

Safety Data Sheet

according to HPR, Schedule 1



Printing date 07/31/2018

Version number 8

Reviewed on 07/03/2018

Trade name: 39377 Seam Sealer

(Contd. of page 9)

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 If on skin: Wash with plenty of water.
 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).
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:**

Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **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:** Rita Joiner (rjoiner@semproducts.com)

· **Date of the latest revision of the safety data sheet** 07/31/2018 / 7

· **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)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

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