

1 Identification

- **Product identifier**
- **Trade name:** **40377 Heavy Bodied Black Seam Sealer**
- **Article number:** 40377
- **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(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 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)

Trade name: 40377 Heavy Bodied Black 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/vapors/spray
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing must 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.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



HMIS-ratings (scale 0 - 4)



Other hazards

Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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	30-40%
67762-90-7	FUMED SILICA	5-7%
26142-30-3	Epoxy Resin	5-7%
68909-14-8	Modified diglycidal ether	1.5-5%

(Contd. on page 3)



Trade name: 40377 Heavy Bodied Black Seam Sealer

(Contd. of page 2)

90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	≥1.5-<5%
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	1-1.5%
74398-71-3	CASTOR OIL GLYCIDAL ETHER	≥0.1-<1%
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥0.1-<1%

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 Fire-fighting 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.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
25068-38-6	bisphenolA(chloro)oxirane polymer	90 mg/m ³
67762-90-7	FUMED SILICA	120 mg/m ³
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	6.5 mg/m ³
107-21-1	ethanediol	30 ppm

(Contd. on page 4)



Trade name: 40377 Heavy Bodied Black Seam Sealer

(Contd. of page 3)

919-30-2	3-aminopropyltriethoxysilane	1.9 mg/m ³
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	9.3 mg/m ³
1333-86-4	Carbon black	9 mg/m ³
14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³
64-17-5	ethanol	1,800 ppm
67-56-1	methanol	530 ppm

· PAC-2:

25068-38-6	bisphenolA(chloro)oxirane polymer	990 mg/m ³
67762-90-7	FUMED SILICA	1,300 mg/m ³
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	72 mg/m ³
107-21-1	ethanediol	150 ppm
919-30-2	3-aminopropyltriethoxysilane	21 mg/m ³
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	100 mg/m ³
1333-86-4	Carbon black	99 mg/m ³
14808-60-7	Quartz (SiO ₂)	33 mg/m ³
64-17-5	ethanol	3300* ppm
67-56-1	methanol	2,100 ppm

· PAC-3:

25068-38-6	bisphenolA(chloro)oxirane polymer	5,900 mg/m ³
67762-90-7	FUMED SILICA	7,900 mg/m ³
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	430 mg/m ³
107-21-1	ethanediol	900 ppm
919-30-2	3-aminopropyltriethoxysilane	350 mg/m ³
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	230 mg/m ³
1333-86-4	Carbon black	590 mg/m ³
14808-60-7	Quartz (SiO ₂)	200 mg/m ³
64-17-5	ethanol	15000* ppm
67-56-1	methanol	7200* ppm

* 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.· **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.

(Contd. on page 5)

USA

Trade name: 40377 Heavy Bodied Black Seam Sealer

· **Specific end use(s)** No further relevant information available.

(Contd. of page 4)

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.

· **Eye protection:**



Tightly sealed goggles



Trade name: 40377 Heavy Bodied Black Seam Sealer

(Contd. of page 5)

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:** >200 °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:** 1.22953 g/cm³
 · **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:** Not determined.
 · **Kinematic:** Not determined.

· **Solvent content:**

· **Organic solvents:** 0.0 %
 · **Water:** 0.0 %
 · **VOC content:** 0.00 %

· **Solids content:** 99.6 %

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

(Contd. on page 7)



Trade name: 40377 Heavy Bodied Black Seam Sealer

(Contd. of page 6)

- **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)**

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
------------	----------------------------	---

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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.
- **Other adverse effects** No further relevant information available.

USA

(Contd. on page 8)


Trade name: 40377 Heavy Bodied Black Seam Sealer

(Contd. of page 7)

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
· ADR, IMDG, IATA	UN3082
· UN proper shipping name	
· DOT	Void
· ADR	3082 Environmentally hazardous substances, liquid, n.o.s.
· IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
· Transport hazard class(es)	
· DOT	
· Class	Void
· ADR, IMDG, IATA	
	
· Class	9 Miscellaneous dangerous substances and articles
· Label	9
· Packing group	
· DOT	Void
· ADR, IMDG, IATA	III
· Environmental hazards:	Product contains environmentally hazardous substances: bisphenolA(chloro)oxirane polymer
· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	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 9)



Trade name: 40377 Heavy Bodied Black Seam Sealer

(Contd. of page 8)

· **Transport/Additional information:**

· **DOT**

· **Remarks** NOT REGULATED

· **ADR**

· **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
919-30-2	3-aminopropyltriethoxysilane
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
1333-86-4	Carbon black
14808-60-7	Quartz (SiO ₂)
64-17-5	ethanol
67-56-1	methanol
7732-18-5	water

(Contd. on page 10)

Trade name: 40377 Heavy Bodied Black Seam Sealer

(Contd. of page 9)

· TSCA new (21st Century Act) (Substances not listed)		
26142-30-3	Epoxy Resin	
68909-14-8	Modified diglycidal ether	
· Proposition 65		
· Chemicals known to cause cancer:		
25068-38-6	bisphenolA(chloro)oxirane polymer	
74398-71-3	CASTOR OIL GLYCIDAL ETHER	
107-21-1	ethanediol	
1333-86-4	Carbon black	
14808-60-7	Quartz (SiO ₂)	
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients is listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:		
107-21-1	ethanediol	
64-17-5	ethanol	
67-56-1	methanol	
· Carcinogen categories		
· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value established by ACGIH)		
107-21-1	ethanediol	A4
1333-86-4	Carbon black	A4
14808-60-7	Quartz (SiO ₂)	A2
64-17-5	ethanol	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
1333-86-4	Carbon black	
14808-60-7	Quartz (SiO ₂)	
67-56-1	methanol	

· **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

(Contd. on page 11)



Trade name: 40377 Heavy Bodied Black Seam Sealer

(Contd. of page 10)

· **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.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing must 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.
- P363 Wash contaminated clothing before reuse.
- 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 preparation / last revision** 07/03/2018 / 9

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

(Contd. on page 12)

**Trade name: 40377 Heavy Bodied Black Seam Sealer**

(Contd. of page 11)

*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**NIOSH: National Institute for Occupational Safety**OSHA: Occupational Safety & Health**TLV: Threshold Limit Value**PEL: Permissible Exposure Limit**REL: Recommended Exposure Limit**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A**Skin Sens. 1: Skin sensitisation – Category 1**Carc. 1A: Carcinogenicity – Category 1A**Repr. 2: Reproductive toxicity – Category 2***· * Data compared to the previous version altered.**

USA