

1 Identification

- **Product identifier**
- **Trade name:** 39337 Door Skin and SMC Adhesive
- **Article number:** 39337
- **Application of the substance / the mixture** Epoxy resin adhesive
- **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

- Muta. 2 H341 Suspected of causing genetic defects.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS05 Corrosion

- Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.



GHS07

- Acute Tox. 4 H302 Harmful if swallowed.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 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**



GHS05



GHS07



GHS08

- **Signal word** Danger

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

phenol
bisphenolA(chloro)oxirane polymer
4-nonylphenol, branched
Benzyl alcohol
2,2'-iminodiethylamine
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane
3,6-diazaoctanethylenediamin
(DIMETHYLAMINO)METHYLPHENOL
N-(3-(trimethoxysilyl)propyl)ethylenediamine

· **Hazard statements**

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H361 Suspected of damaging fertility or the unborn child.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dusts or mists.
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 must 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.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P310 Immediately call a poison center/doctor.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P321 Specific treatment (see on this label).
P314 Get medical advice/attention if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing 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 = 3
Fire = 1
Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	3	Health = 3
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- **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%
14807-96-6	Talc	13-30%
66402-68-4	CERAMIC MICROSPHERES	10-13%
108-95-2	phenol	5-7%
	Amine proprietary	
100-51-6	Benzyl alcohol	1.5-5%
67762-90-7	FUMED SILICA	1.5-5%
68909-14-8	Modified diglycidal ether	1.5-5%
84852-15-3	4-nonylphenol, branched	≥1.5-<5%
111-40-0	2,2'-iminodiethylamine	1-1.5%
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane	1-1.5%
112-24-3	3,6-diazaoctanethylenediamin	≥0.1-<1%
25338-55-0	(DIMETHYLAMINO)METHYLPHENOL	≥0.1-<1%
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	≥0.1-<1%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
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. Then consult a doctor.
- **After swallowing:**
Immediately call a doctor.

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- Drink copious amounts of water and provide fresh air. 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 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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**
Wear protective equipment. Keep unprotected persons away.
- **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).
Use neutralizing agent.
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
108-95-2	phenol	15 ppm
100-51-6	Benzyl alcohol	30 ppm
67762-90-7	FUMED SILICA	120 mg/m ³
84852-15-3	4-nonylphenol, branched	3.9 mg/m ³
111-40-0	2,2'-iminodiethylamine	3 ppm
112-24-3	3,6-diazaoctanethylenediamin	3 ppm
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	9.3 mg/m ³
919-30-2	3-aminopropyltriethoxysilane	1.9 mg/m ³
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	23 mg/m ³
107-21-1	ethanediol	30 ppm
1333-86-4	Carbon black	9 mg/m ³
67-56-1	methanol	530 ppm
107-15-3	ethylenediamine	0.88 ppm
64-17-5	ethanol	1,800 ppm

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· PAC-2:		
25068-38-6	bisphenolA(chloro)oxirane polymer	990 mg/m ³
108-95-2	phenol	23 ppm
100-51-6	Benzyl alcohol	52 ppm
67762-90-7	FUMED SILICA	1,300 mg/m ³
84852-15-3	4-nonylphenol, branched	43 mg/m ³
111-40-0	2,2'-iminodiethylamine	8.5 ppm
112-24-3	3,6-diazaoctanethylenediamin	14 ppm
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	100 mg/m ³
919-30-2	3-aminopropyltriethoxysilane	21 mg/m ³
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	250 mg/m ³
107-21-1	ethanediol	150 ppm
1333-86-4	Carbon black	99 mg/m ³
67-56-1	methanol	2,100 ppm
107-15-3	ethylenediamine	9.7 ppm
64-17-5	ethanol	3300* ppm
· PAC-3:		
25068-38-6	bisphenolA(chloro)oxirane polymer	5,900 mg/m ³
108-95-2	phenol	200 ppm
100-51-6	Benzyl alcohol	740 ppm
67762-90-7	FUMED SILICA	7,900 mg/m ³
84852-15-3	4-nonylphenol, branched	260 mg/m ³
111-40-0	2,2'-iminodiethylamine	51 ppm
112-24-3	3,6-diazaoctanethylenediamin	83 ppm
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	230 mg/m ³
919-30-2	3-aminopropyltriethoxysilane	350 mg/m ³
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	1,500 mg/m ³
107-21-1	ethanediol	900 ppm
1333-86-4	Carbon black	590 mg/m ³
67-56-1	methanol	7200* ppm
107-15-3	ethylenediamine	20 ppm
64-17-5	ethanol	15000* ppm

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.

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· **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 following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

108-95-2 phenol

PEL	Long-term value: 19 mg/m ³ , 5 ppm Skin
REL	Long-term value: 19 mg/m ³ , 5 ppm Ceiling limit value: 60* mg/m ³ , 15.6* ppm *15-min; Skin
TLV	Long-term value: 19 mg/m ³ , 5 ppm Skin; BEI

100-51-6 Benzyl alcohol

WEEL	Long-term value: 10 ppm
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111-40-0 2,2'-iminodiethylamine

REL	Long-term value: 4 mg/m ³ , 1 ppm Skin
TLV	Long-term value: 4.2 mg/m ³ , 1 ppm Skin

112-24-3 3,6-diazaoctanethylenediamin

WEEL	Long-term value: 6 mg/m ³ , 1 ppm Skin
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· **Ingredients with biological limit values:**

108-95-2 phenol

BEI	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)
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· **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.
- 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.

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· **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

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:** 95 °C

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

· **Ignition temperature:** 595 °C

· **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:	1.3 Vol %
· Upper:	9.5 Vol %

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· Vapor pressure at 20 °C:	0.3 hPa
· Density at 20 °C:	1.37331 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:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	0.0 %
VOC content:	0.01 %
· Solids content:	96.3 %
· 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:**

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

108-95-2 phenol

Oral	LD50	317 mg/kg (rat)
Dermal	LD50	850 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful
Corrosive

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Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories**

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

14807-96-6	Talc	3
108-95-2	phenol	3
1333-86-4	Carbon black	2B
64-17-5	ethanol	1

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **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:**

Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even small quantities leak into the ground.

· **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 packagings:**

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

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA** UN1760

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Trade name: 39337 Door Skin and SMC Adhesive

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· **UN proper shipping name**
 · **DOT** Corrosive liquids, n.o.s. (3-aminopropyltriethoxysilane, Diethylenetriamine)
 · **ADR** 1760 Corrosive liquids, n.o.s. (3-aminopropyltriethoxysilane, Diethylenetriamine), ENVIRONMENTALLY HAZARDOUS
 · **IMDG** CORROSIVE LIQUID, N.O.S. (3-aminopropyltriethoxysilane, DIETHYLENETRIAMINE, 4-nonylphenol, branched)
 · **IATA** CORROSIVE LIQUID, N.O.S. (3-aminopropyltriethoxysilane, DIETHYLENETRIAMINE)

· **Transport hazard class(es)**

· **DOT**



· **Class** 8 Corrosive substances

· **Label** 8

· **ADR, IMDG**



· **Class** 8 Corrosive substances

· **Label** 8

· **IATA**



· **Class** 8 Corrosive substances

· **Label** 8

· **Packing group**

· **DOT, ADR, IMDG, IATA** III

· **Environmental hazards:** Product contains environmentally hazardous substances: 4-nonylphenol, branched

· **Marine pollutant:** Yes

· **Special marking (ADR):** Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **Special precautions for user** Warning: Corrosive substances

· **EMS Number:** F-A,S-B

· **Segregation groups** Alkalis

· **Stowage Category** A

· **Stowage Code** SW2 Clear of living quarters.

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

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Trade name: 39337 Door Skin and SMC Adhesive

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· **Transport/Additional information:**

· **DOT**

· **Quantity limitations**

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· **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 1760 CORROSIVE LIQUIDS, N.O.S. (3-AMINOPROPYLTRIEHOXYSILANE, DIETHYLENETRIAMINE), 8, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· **Sara**

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

108-95-2 phenol

107-15-3 ethylenediamine

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

14807-96-6 Talc

108-95-2 phenol

68909-14-8 Modified diglycidal ether

84852-15-3 4-nonylphenol, branched

25338-55-0 (DIMETHYLAMINO)METHYLPHENOL

107-21-1 ethanediol

67-56-1 methanol

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

25068-38-6 bisphenolA(chloro)oxirane polymer

14807-96-6 Talc

66402-68-4 CERAMIC MICROSPHERES

108-95-2 phenol

68082-29-1 FATTY ACID POLYMERS

100-51-6 Benzyl alcohol

67762-90-7 FUMED SILICA

68909-14-8 Modified diglycidal ether

84852-15-3 4-nonylphenol, branched

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111-40-0	2,2'-iminodiethylamine
17557-23-2	1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane
112-24-3	3,6-diazaoctanethylenediamin
25338-55-0	(DIMETHYLAMINO)METHYLPHENOL
2530-83-8	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane
919-30-2	3-aminopropyltriethoxysilane
1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine
107-21-1	ethanediol
1333-86-4	Carbon black
67-56-1	methanol
107-15-3	ethylenediamine
64-17-5	ethanol

· **TSCA new (21st Century Act) (Substances not listed)**

	Amine proprietary
68909-14-8	Modified diglycidal ether

· **Proposition 65**

· **Chemicals known to cause cancer:**

25068-38-6	bisphenolA(chloro)oxirane polymer
107-21-1	ethanediol
1333-86-4	Carbon black

· **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
67-56-1	methanol
64-17-5	ethanol

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

108-95-2	phenol	D, I
107-15-3	ethylenediamine	D

· **TLV (Threshold Limit Value established by ACGIH)**

14807-96-6	Talc	A4
108-95-2	phenol	A4
107-21-1	ethanediol	A4
1333-86-4	Carbon black	A4
107-15-3	ethylenediamine	A4
64-17-5	ethanol	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

1333-86-4	Carbon black
67-56-1	methanol

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

· **Hazard pictograms**



GHS05 GHS07 GHS08

· **Signal word** Danger

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

phenol
bisphenolA(chloro)oxirane polymer
4-nonylphenol, branched
Benzyl alcohol
2,2'-iminodiethylamine
1,3-bis(2,3-epoxypropoxy)-2,2-dimethylpropane
3,6-diazaoctanethylenediamin
(DIMETHYLAMINO)METHYLPHENOL
N-(3-(trimethoxysilyl)propyl)ethylenediamine

· **Hazard statements**

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H361 Suspected of damaging fertility or the unborn child.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dusts or mists.
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 must 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.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P310 Immediately call a poison center/doctor.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P321 Specific treatment (see on this label).
P314 Get medical advice/attention if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

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Trade name: 39337 Door Skin and SMC Adhesive

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
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· **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** 03/14/2018 / 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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

BEI: Biological Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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