

## 1 Identification

· **Product identifier**

· **Trade name:** 39673 Self Etching Primer Black

· **Article number:** 39673

· **Application of the substance / the mixture** Coating

· **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**



GHS02 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

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

STOT SE 1 H370 Causes damage to organs.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

· **Label elements**

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

(Contd. on page 2)



Trade name: 39673 Self Etching Primer Black

(Contd. of page 1)

## · Hazard pictograms



GHS02 GHS04 GHS07 GHS08

· Signal word *Danger*

## · Hazard-determining components of labeling:

CELLULOSE NITRATE

toluene

acetone

Quartz (SiO<sub>2</sub>)

## · Hazard statements

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

## · Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P211 Do not spray on an open flame or other ignition source.

P280 Wear protective gloves.

P280 Wear eye protection / face protection.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 3)

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 2)

· **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:**

68476-86-8	Petroleum gases, liquefied, sweetened	13 - 30%
67-64-1	acetone	13 - 30%
141-78-6	ethyl acetate	7 - 10%
110-19-0	isobutyl acetate	7 - 10%
108-88-3	toluene	5 - 7%
78-93-3	butanone	5 - 7%
9004-70-0	CELLULOSE NITRATE	1.5 - 5%
14808-60-7	Quartz (SiO <sub>2</sub> )	1.5 - 5%
	Resin NJTSRN 6784	
123-86-4	n-butyl acetate	1.5 - 5%
67-63-0	propan-2-ol	1-1.5%
1330-20-7	xylene	1-1.5%
1330-78-5	tris(methylphenyl) phosphate	1-1.5%
14807-96-6	Talc	≤1%
1333-86-4	Carbon black	≤1%
64-17-5	ethanol	≤1%

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(Contd. on page 4)

Trade name: 39673 Self Etching Primer Black

(Contd. of page 3)

#### 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:** 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 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters**

- **Protective equipment:** Mouth respiratory protective device.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

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:**

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.

(Contd. on page 5)



Printing date 02/22/2016

Reviewed on 02/22/2016

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 4)

- **Information about protection against explosions and fires:**  
Do not spray on a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Keep respiratory protective device available.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurized containers.
- **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:**

### 67-64-1 acetone

PEL	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm
TLV	Short-term value: 1187 mg/m <sup>3</sup> , 500 ppm
	Long-term value: 594 mg/m <sup>3</sup> , 250 ppm
BEI	

### 141-78-6 ethyl acetate

PEL	Long-term value: 1400 mg/m <sup>3</sup> , 400 ppm
REL	Long-term value: 1400 mg/m <sup>3</sup> , 400 ppm
TLV	Long-term value: 1440 mg/m <sup>3</sup> , 400 ppm

### 110-19-0 isobutyl acetate

PEL	Long-term value: 700 mg/m <sup>3</sup> , 150 ppm
REL	Long-term value: 700 mg/m <sup>3</sup> , 150 ppm
TLV	Short-term value: NIC-712 mg/m <sup>3</sup> , NIC-150 ppm
	Long-term value: (713) NIC-238 mg/m <sup>3</sup> , (150) NIC-50 ppm

### 108-88-3 toluene

PEL	Long-term value: 200 ppm
	Ceiling limit value: 300; 500* ppm
	*10-min peak per 8-hr shift
REL	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm
	Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV	Long-term value: 75 mg/m <sup>3</sup> , 20 ppm
BEI	

### 78-93-3 butanone

PEL	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
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(Contd. on page 6)



Printing date 02/22/2016

Reviewed on 02/22/2016

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 5)

<b>REL</b>	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
<b>TLV</b>	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
<b>BEI</b>	
<b>123-86-4 n-butyl acetate</b>	
<b>PEL</b>	Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
<b>REL</b>	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
<b>TLV</b>	Short-term value: (950) NIC-712 mg/m <sup>3</sup> , (200) NIC-150 ppm Long-term value: (713) NIC-238 mg/m <sup>3</sup> , (150) NIC-50 ppm
<b>67-63-0 propan-2-ol</b>	
<b>PEL</b>	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
<b>REL</b>	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
<b>TLV</b>	Short-term value: 984 mg/m <sup>3</sup> , 400 ppm Long-term value: 492 mg/m <sup>3</sup> , 200 ppm
<b>BEI</b>	
<b>1330-20-7 xylene</b>	
<b>PEL</b>	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
<b>REL</b>	Short-term value: 655 mg/m <sup>3</sup> , 150 ppm Long-term value: 435 mg/m <sup>3</sup> , 100 ppm
<b>TLV</b>	Short-term value: 651 mg/m <sup>3</sup> , 150 ppm Long-term value: 434 mg/m <sup>3</sup> , 100 ppm
<b>BEI</b>	
<b>· Ingredients with biological limit values:</b>	
<b>67-64-1 acetone</b>	
<b>BEI</b>	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
<b>108-88-3 toluene</b>	
<b>BEI</b>	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene  0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene  0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

(Contd. on page 7)

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 6)

<b>78-93-3 butanone</b>	
BEI	2 mg/L Medium: urine Time: end of shift Parameter: MEK
<b>67-63-0 propan-2-ol</b>	
BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
<b>1330-20-7 xylene</b>	
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids

· **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:**

Safety glasses

(Contd. on page 8)



**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 7)



Tightly sealed goggles

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form:	Aerosol
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:	55 °C

· Flash point: -103 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 405 °C

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: In use, may form flammable/explosive vapour-air mixture.

#### · Explosion limits:

Lower:	1.9 Vol %
Upper:	13.0 Vol %

· Vapor pressure at 20 °C: 233 hPa

· Density at 20 °C:	0.77 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not applicable.

#### · 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:	83.6 %
VOC content:	60.4 %
	600.5 g/l / 5.01 lb/gal

(Contd. on page 9)





Printing date 02/22/2016

Reviewed on 02/22/2016

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 8)

<b>Solids content:</b>	15.7 %
<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:**

### 108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **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)**

108-88-3	toluene	3
14808-60-7	Quartz (SiO <sub>2</sub> )	1
67-63-0	propan-2-ol	3
1330-20-7	xylene	3
14807-96-6	Talc	2B
1333-86-4	Carbon black	2B
64-17-5	ethanol	1
111-76-2	2-butoxyethanol	3
100-41-4	ethylbenzene	2B

· **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO <sub>2</sub> )	K
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(Contd. on page 10)

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 9)

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

68911-87-5 ALKYL QUATERNARY AMMONIUM MONTMORILLONITE


## 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 3 (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely 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** UN1950
- **UN proper shipping name**
- **DOT, IATA** Aerosols, flammable
- **ADR** 1950 Aerosols
- **IMDG** AEROSOLS
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 2.1

(Contd. on page 11)

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 10)

· **Label** 2.1

· **ADR**



· **Class** 2 5F Gases

· **Label** 2.1

· **IMDG, IATA**



· **Class** 2.1

· **Label** 2.1

· **Packing group**

· **DOT, ADR, IMDG, IATA** Void

· **Environmental hazards:**

· **Marine pollutant:** No

· **Special precautions for user** Warning: Gases

· **EMS Number:** F-D,S-U

· **Stowage Code** SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

· **Segregation Code** SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

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

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations** On passenger aircraft/rail: 75 kg

On cargo aircraft only: 150 kg

· **Remarks** ORM-D 49CFR 173-150,156,306

· **ADR**

· **Excepted quantities (EQ)** Code: E0

Not permitted as Excepted Quantity

· **IMDG**

· **Limited quantities (LQ)** 1L

(Contd. on page 12)



Printing date 02/22/2016

Reviewed on 02/22/2016

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 11)

- |                                   |  |
|-----------------------------------|--|
| · <b>Excepted quantities (EQ)</b> | Code: E0<br>Not permitted as Excepted Quantity |
| · <b>UN "Model Regulation":</b>   | UN 1950 AEROSOLS, 2.1                          |

**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):**

108-88-3	toluene
78-93-3	butanone
67-63-0	propan-2-ol
1330-20-7	xylene
14807-96-6	Talc
67-56-1	methanol
	ACRYLIC RESIN
	COPPER COMPOUND MIXTURE
111-76-2	2-butoxyethanol
100-41-4	ethylbenzene

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

68476-86-8	Petroleum gases, liquefied, sweetened
67-64-1	acetone
141-78-6	ethyl acetate
110-19-0	isobutyl acetate
108-88-3	toluene
78-93-3	butanone
9004-70-0	CELLULOSE NITRATE
14808-60-7	Quartz (SiO <sub>2</sub> )
123-86-4	n-butyl acetate
67-63-0	propan-2-ol
1330-20-7	xylene
1330-78-5	tris(methylphenyl) phosphate
18268-70-7	Tetraethylene Glycol Di 2-ethylhexoate
14807-96-6	Talc
1333-86-4	Carbon black

· **Proposition 65**

· **Chemicals known to cause cancer:**

14808-60-7	Quartz (SiO <sub>2</sub> )
1330-20-7	xylene

(Contd. on page 13)

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 12)

1333-86-4	Carbon black
100-41-4	ethylbenzene

· **Chemicals known to cause reproductive toxicity for females:**

108-88-3	toluene
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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.	
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· **Chemicals known to cause developmental toxicity:**

108-88-3	toluene
64-17-5	ethanol
67-56-1	methanol

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I
108-88-3	toluene	II
78-93-3	butanone	I
1330-20-7	xylene	I
111-76-2	2-butoxyethanol	NL
100-41-4	ethylbenzene	D

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

67-64-1	acetone	A4
108-88-3	toluene	A4
14808-60-7	Quartz (SiO <sub>2</sub> )	A2
67-63-0	propan-2-ol	A4
1330-20-7	xylene	A4
14807-96-6	Talc	A4
1333-86-4	Carbon black	A4
64-17-5	ethanol	A3
111-76-2	2-butoxyethanol	A3
100-41-4	ethylbenzene	A3

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

14808-60-7	Quartz (SiO <sub>2</sub> )
1333-86-4	Carbon black
67-56-1	methanol

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

· **Hazard pictograms**



· **Signal word** Danger

(Contd. on page 14)

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 13)

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

CELLULOSE NITRATE

toluene

acetone

Quartz (SiO<sub>2</sub>)

· **Hazard statements**

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P211 Do not spray on an open flame or other ignition source.

P280 Wear protective gloves.

P280 Wear eye protection / face protection.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

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.

(Contd. on page 15)

Printing date 02/22/2016

Reviewed on 02/22/2016

**Trade name: 39673 Self Etching Primer Black**

(Contd. of page 14)

· **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)

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· **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

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Carc. 1A: Carcinogenicity, Hazard Category 1A

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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

USA