



1 Identification of the substance/mixture and of the company/undertaking

· **Product details**

· **Trade name:** 39671 39674 Self Etching Primer Black

· **Article number:** 39671, 39674

· **Application of the substance / the preparation** coating

· **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 information:** 24 HR EMERGENCY CHEMTREC 1-800-424-9300

2 Composition/information on ingredients

· **Chemical characterization**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

108-88-3	toluene ⚠ H225; ⚠ H361; H373; H304; ⚠ H315; H336	13 - 30%
67-64-1	acetone ⚠ H225; ⚠ H319; H336	13 - 30%
123-86-4	n-butyl acetate ⚠ H226; ⚠ H336	13 - 30%
78-93-3	butanone ⚠ H225; ⚠ H319; H336	7 - 10%
9004-70-0	CELLULOSE NITRATE ⚠ H200; ⚠ H301; H315; H319; H335	5 - 7%
14808-60-7	Quartz (SiO ₂) ⚠ H350; H371; ⚠ H319	1.5 - 5%
	Resin NJTSRN 6784 ⚠ H315; H319; H335	
141-78-6	ethyl acetate ⚠ H225; ⚠ H319; H336	1.5 - 5%
110-19-0	isobutyl acetate ⚠ H225	1.5 - 5%
67-63-0	propan-2-ol ⚠ H225; ⚠ H319; H336	1.5 - 5%
1330-20-7	xylene ⚠ H226; ⚠ H312; H332; H315	1.5 - 5%
64742-94-5	Solvent naphtha (petroleum), heavy arom. ⚠ H304	1.5 - 5%
1330-78-5	tris(methylphenyl) phosphate ⚠ H370; ⚠ H411	1-1.5%

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67-56-1 methanol

≤1%

H225; H301; H311; H331; H370

3 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

**GHS02 Flame**
H225 Highly flammable liquid and vapour.
**GHS08 Health hazard**
H350 May cause cancer.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure.
**GHS07**
H315 Causes skin irritation.

H319 Causes serious eye irritation.

H303 May be harmful if swallowed.

H333 May be harmful if inhaled.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

**Toxic**

May cause cancer by inhalation. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

**Harmful**

Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child.

**Irritant**

Irritating to eyes and skin.

**Highly flammable**

Highly flammable.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of international guidelines.

- **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms**



GHS02 GHS07 GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**
toluene
Quartz (SiO₂)
tris(methylphenyl) phosphate
naphthalene

- **Hazard statements**
Highly flammable liquid and vapour.
May be harmful if swallowed.
May be harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
May cause cancer.
Suspected of damaging fertility or the unborn child.
Causes damage to organs.
May cause damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with directives on hazardous materials.
- **Code letter and hazard designation of product:**

Toxic
Highly flammable

- **Hazard-determining components of labelling:**
toluene
Quartz (SiO₂)
tris(methylphenyl) phosphate
- **Risk phrases:**
May cause cancer by inhalation.
Highly flammable.
Irritating to eyes and skin.
Also toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

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*Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
Possible risk of harm to the unborn child.*

· **Safety phrases:**

Avoid exposure - obtain special instructions before use.

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

Wear suitable protective clothing and gloves.

In case of insufficient ventilation, wear suitable respiratory equipment.

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

This material and its container must be disposed of as hazardous waste.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 0

4 First aid measures

- **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:** *If symptoms persist consult doctor.*

5 Firefighting measures

- **Suitable extinguishing agents:** *CO₂, sand, extinguishing powder. Do not use water.*
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Protective equipment:** *No special measures required.*

6 Accidental release measures

- **Person-related safety precautions:** *Wear protective equipment. Keep unprotected persons away.*
- **Measures for environmental protection:** *Do not allow to enter sewers/ surface or ground water.*
- **Measures for cleaning/collecting:**
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents*

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7 Handling and storage

- **Handling:**
- **Information 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 ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls/personal protection

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

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

108-88-3 toluene

PEL ()	Short-term value: C 300; 500* ppm Long-term value: 200 ppm *10-min peak per 8-hr shift
REL ()	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV ()	75 mg/m ³ , 20 ppm NIC-BEI

67-64-1 acetone

PEL ()	2400 mg/m ³ , 1000 ppm
REL ()	590 mg/m ³ , 250 ppm
TLV ()	Short-term value: 1782 mg/m ³ , 750 ppm Long-term value: 1188 mg/m ³ , 500 ppm BEI

123-86-4 n-butyl acetate

PEL ()	710 mg/m ³ , 150 ppm
REL ()	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV ()	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 713 mg/m ³ , 150 ppm

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78-93-3 butanone

PEL () 590 mg/m³, 200 ppm
 REL () Short-term value: 885 mg/m³, 300 ppm
 Long-term value: 590 mg/m³, 200 ppm
 TLV () Short-term value: 885 mg/m³, 300 ppm
 Long-term value: 590 mg/m³, 200 ppm
 BEI

14808-60-7 Quartz (SiO₂)

PEL () see Quartz listing
 REL () 0.05* mg/m³
 *respirable dust
 TLV () 0.025* mg/m³
 *as respirable fraction

141-78-6 ethyl acetate

PEL () 1400 mg/m³, 400 ppm
 REL () 1400 mg/m³, 400 ppm
 TLV () 1440 mg/m³, 400 ppm

110-19-0 isobutyl acetate

PEL () 700 mg/m³, 150 ppm
 REL () 700 mg/m³, 150 ppm
 TLV () 713 mg/m³, 150 ppm

67-63-0 propan-2-ol

PEL () 980 mg/m³, 400 ppm
 REL () Short-term value: 1225 mg/m³, 500 ppm
 Long-term value: 980 mg/m³, 400 ppm
 TLV () Short-term value: 984 mg/m³, 400 ppm
 Long-term value: 492 mg/m³, 200 ppm
 BEI

1330-20-7 xylene

PEL () 435 mg/m³, 100 ppm
 REL () Short-term value: 655 mg/m³, 150 ppm
 Long-term value: 435 mg/m³, 100 ppm
 TLV () Short-term value: 651 mg/m³, 150 ppm
 Long-term value: 434 mg/m³, 100 ppm
 BEI

67-56-1 methanol

PEL () 260 mg/m³, 200 ppm
 REL () Short-term value: 325 mg/m³, 250 ppm
 Long-term value: 260 mg/m³, 200 ppm
 Skin
 TLV () Short-term value: 328 mg/m³, 250 ppm
 Long-term value: 262 mg/m³, 200 ppm
 Skin; BEI

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

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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:**



Protective gloves

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

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

· **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

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 56°C (133°F)

· **Flash point:** -19°C (-2°F)

· **Ignition temperature:** 370°C (698°F)

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

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

· **Explosion limits:**

Lower: 1.2 Vol %

Upper: 13.0 Vol %

· **Vapor pressure at 20°C (68°F):** 233 hPa (175 mm Hg)

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· Density at 20°C (68°F):	0.92 g/cm ³ (7.677 lbs/gal)
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Solvent content:	
Organic solvents:	80.4 %
VOC content:	61.6 %
	577.6 g/l / 4.82 lb/gal
· Solids content:	18.5 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **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:
Irritant
Carcinogenic if inhaled.

12 Ecological information

- **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.
Danger to drinking water if even small quantities leak into the ground.

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13 Disposal considerations

- **Product:**
- **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

· **DOT regulations:**



- **Hazard class:** 3
- **Identification number:** UN1263
- **Packing group:** II
- **Proper shipping name (technical name):** PAINT
- **Label:** 3
- **Remarks:** ORM-D 49CFR 173.150,156,or306

· **Land transport TDG (Canada) and ADR/RID (Europe):**



- **Hazard class:** 3 Flammable liquids
- **UN-Number:** 1263
- **Packaging group:** II
- **Label:** 3
- **Description of goods:** 1263 PAINT, special provision 640D

· **Maritime transport IMDG:**



- **IMDG Class:** 3
- **UN Number:** 1263
- **Label:** 3
- **Packaging group:** II
- **EMS Number:** F-E,S-D
- **Marine pollutant:** No

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· **Propper shipping name:** PAINT· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 3
 · **UN/ID Number:** 1263
 · **Label** 3
 · **Packaging group:** II
 · **Propper shipping name:** PAINT

· **UN "Model Regulation":** UN1263, PAINT, 3, II

15 Regulatory information

· **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 (Mg ₃ H ₂ (SiO ₃) ₄)
67-56-1	methanol
	ACRYLIC RESIN
	COPPER COMPOUND MIXTURE
91-20-3	naphthalene
95-63-6	1,2,4-trimethylbenzene
100-41-4	ethylbenzene

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

108-88-3	toluene
67-64-1	acetone
123-86-4	n-butyl acetate
78-93-3	butanone
9004-70-0	CELLULOSE NITRATE
14808-60-7	Quartz (SiO ₂)
141-78-6	ethyl acetate
110-19-0	isobutyl acetate
67-63-0	propan-2-ol
1330-20-7	xylene
64742-94-5	Solvent naphtha (petroleum), heavy arom.

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1330-78-5	tris(methylphenyl) phosphate
18268-70-7	Tetraethylene Glycol Di 2-ethylhexoate
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
1333-86-4	Carbon black

· **Proposition 65**

· **Chemicals known to cause cancer:**

14808-60-7	Quartz (SiO ₂)
1330-20-7	xylene
1333-86-4	Carbon black
68911-87-5	ALKYL QUATERNARY AMMONIUM MONTMORILLONITE
91-20-3	naphthalene
95-63-6	1,2,4-trimethylbenzene
100-41-4	ethylbenzene

· **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:**

108-88-3	toluene
64-17-5	ethanol

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

108-88-3	toluene	II
67-64-1	acetone	I
78-93-3	butanone	I
1330-20-7	xylene	I
111-76-2	2-butoxyethanol	CBD
91-20-3	naphthalene	CBD
100-41-4	ethylbenzene	D

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

108-88-3	toluene	3
14808-60-7	Quartz (SiO ₂)	1
67-63-0	propan-2-ol	3
1330-20-7	xylene	3
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	3
1333-86-4	Carbon black	2B
111-76-2	2-butoxyethanol	3
91-20-3	naphthalene	2B
100-41-4	ethylbenzene	2B

· **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
91-20-3	naphthalene	R

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· TLV (Threshold Limit Value established by ACGIH)		
108-88-3	toluene	A4
67-64-1	acetone	A4
14808-60-7	Quartz (SiO ₂)	A2
67-63-0	propan-2-ol	A4
1330-20-7	xylene	A4
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
1333-86-4	Carbon black	A4
64-17-5	ethanol	A3
111-76-2	2-butoxyethanol	A3
91-20-3	naphthalene	A4
100-41-4	ethylbenzene	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	Quartz (SiO ₂)	
1333-86-4	Carbon black	
67-56-1	methanol	
· OSHA-Ca (Occupational Safety & Health Administration)		
68911-87-5	ALKYL QUATERNARY AMMONIUM MONTMORILLONITE	
· 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 MSDS:** Environment protection department.

· **Contact:** Steve Gaver

· **Abbreviations and acronyms:**

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

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

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

USA