

1 Identification of substance

- **Product details**
- **Trade name:** 39673 Self Etching Primer Black
- **Article number:** 39673
- **Manufacturer/Supplier:**
SEM Products, Inc.
651 Michael Wylie Dr.
Charlotte, NC 28217
USA
(704)522-1006
- **Information department:** 24HR EMERGENCY CHEMTREC 800-424-9300

2 Composition/Data on components

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

68476-86-8	Petroleum gases, liquefied, sweetened	25-50%
67-64-1	acetone	10-25%
141-78-6	ethyl acetate	2.5-10%
110-19-0	isobutyl acetate	2.5-10%
108-88-3	toluene	2.5-10%
78-93-3	butanone	2.5-10%
9004-70-0	CELLULOSE NITRATE	2.5-10%
14808-60-7	Quartz (SiO ₂)	2.5-10%
	MALEIC MODIFIED ROSIN RESIN	2.5-10%
123-86-4	n-butyl acetate	≤ 2.5%
67-63-0	propan-2-ol	≤ 2.5%
1330-20-7	xylene	≤ 2.5%
1330-78-5	tris(methylphenyl) phosphate	≤ 2.5%
84-74-2	dibutyl phthalate	≤ 2.5%

3 Hazards identification

- **Hazard description:**



Toxic
Highly flammable

- **Information pertaining to particular dangers for man and environment:**

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

Warning! Pressurized container.

May cause cancer by inhalation.

May cause harm to the unborn child.

Highly flammable.

Irritating to eyes.

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

Possible risk of harm to the unborn child.

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· **Classification system:**

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

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **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 Fire fighting 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:**
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **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.
Protect against electrostatic charges.
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.

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- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
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.
Store in cool, dry conditions in well sealed receptacles.

8 Exposure controls and 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:**

68476-86-8 Petroleum gases, liquefied, sweetened

TLV Short-term value: 2950 mg/m³, 1000 ppm

67-64-1 acetone

PEL 2400 mg/m³, 1000 ppm

REL 590 mg/m³, 250 ppm

TLV Short-term value: 1782 mg/m³, 750 ppm

Long-term value: 1188 mg/m³, 500 ppm

BEI

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

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/m³, 150 ppm

Long-term value: 375 mg/m³, 100 ppm

TLV 188 mg/m³, 50 ppm

Skin; BEI

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)

REL 0.05* mg/m³

*Respirable dust

TLV (0.05 R) mg/m³

NIC-0.025 R

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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

67-63-0 propan-2-ol

PEL	980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm

1330-20-7 xylene

PEL	435 mg/m ³ , 100 ppm
REL	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm (o-, m-, & p-isomers)
TLV	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI

84-74-2 dibutyl phthalate

PEL	5 mg/m ³
REL	5 mg/m ³
TLV	5 mg/m ³

· **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.
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.

· **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.

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· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· General Information

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

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: < 0°C (< 32°F)

· **Flash point:** < 0°C (< 32°F)

· **Ignition temperature:** 405.0°C (761°F)

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

· ~~Danger of explosion:~~ · ~~Explosion limits:~~

Lower:	1.9 Vol %
Upper:	13.0 Vol %

· **Vapor pressure at 20°C (68°F):** 233.0 hPa (175 mm Hg)

· **Density at 20°C (68°F):** 0.77 g/cm³

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Solvent content:

Organic solvents:	83.6 %
VOC content:	60.4 %
	495.7 g/l / 4.14 lb/gal

· **Solids content:** 12.9 %

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **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)
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Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)
84-74-2 dibutyl phthalate		
Oral	LD50	8000 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **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

- **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.

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:** 2.1
- **Identification number:** UN1950
- **Packing group:** -
- **Proper shipping name (technical name):** AEROSOLS, flammable
- **Label:** 2.1

- **Land transport ADR/RID (cross-border):**



- **ADR/RID class:** 2 5F Gases
- **Danger code (Kemler):** 23

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Material Safety Data Sheet

acc. to ISO/DIS 11014



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· **UN-Number:** 1950
 · **Packaging group:** -
 · **Label:** 2.1
 · **Description of goods:** 1950 AEROSOLS

· **Maritime transport IMDG:**

· **IMDG Class:** 2.1
 · **UN Number:** 1950
 · **Label:** 2.1
 · **Packaging group:** -
 · **EMS Number:** F-D,S-U
 · **Marine pollutant:** No
 · **Propper shipping name:** AEROSOLS

· **Air transport ICAO-TI and IATA-DGR:**

· **ICAO/IATA Class:** 2.1
 · **UN/ID Number:** 1950
 · **Label:** 2.1
 · **Packaging group:** -
 · **Propper shipping name:** AEROSOLS, flammable

15 Regulations

· **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
84-74-2	dibutyl phthalate
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
67-56-1	methanol
	ACRYLIC RESIN
	COPPER COMPOUND MIXTURE
100-41-4	ethylbenzene

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

68476-86-8	Petroleum gases, liquefied, sweetened
67-64-1	acetone

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141-78-6	ethyl acetate
110-19-0	isobutyl acetate
108-88-3	toluene
78-93-3	butanone
14808-60-7	Quartz (SiO ₂)
123-86-4	n-butyl acetate
67-63-0	propan-2-ol
1330-20-7	xylene
1330-78-5	tris(methylphenyl) phosphate
84-74-2	dibutyl phthalate
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)
1333-86-4	Carbon black
108-65-6	2-methoxy-1-methylethyl acetate

· **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

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

108-88-3	toluene
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· **Cancerogenity categories**· **EPA (Environmental Protection Agency)**

67-64-1	acetone	D
108-88-3	toluene	D
78-93-3	butanone	D
1330-20-7	xylene	D
84-74-2	dibutyl phthalate	D
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
68911-87-5	ALKYL QUATERNARY AMMONIUM MONTMORILLONITE	TRACE AMOUNTS OF 14808-60-7
100-41-4	ethylbenzene	2B

· **NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO ₂)	K
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· **TLV (Threshold Limit Value established by ACGIH)**

67-64-1	acetone	A4
108-88-3	toluene	A4

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14808-60-7	Quartz (SiO ₂)	A2
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	A4

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

14808-60-7	Quartz (SiO ₂)
1333-86-4	Carbon black

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

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**

Toxic

Highly flammable

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

tris(methylphenyl) phosphate

toluene

Quartz (SiO₂)

dibutyl phthalate

· **Risk phrases:**

May cause cancer by inhalation.

May cause harm to the unborn child.

Highly flammable.

Irritating to eyes.

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

Possible risk of harm to the unborn child.

· **Safety phrases:**

Avoid exposure - obtain special instructions before use.

Keep out of the reach of children.

Wear suitable protective clothing, gloves and eye/face protection.

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

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:** Mr. George Wallace

USA