



1 Identification of substance

· **Product details**

· **Trade name:** 39681 39684 Self Etching Primer Gray

· **Article number:** 39681, 39684

· **Manufacturer/Supplier:**

SEM Products Inc.
651 Michael Wylie Dr.
Charlotte, NC 28217
(704)522-1006

· **Information department:**

labsupport@sem.ws : SEM Products 651 Michael Wylie Dr. Charlotte, NC 28217 : phone 1-704-522-1006, M - TH 7am - 4pm EDT

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

2 Composition/Data on components

· **Chemical characterization**

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









· **Dangerous components:**

108-88-3	toluene Danger: 2.6/2; 3.10/1, 3.7/2 Warning: 3.2/2, 3.3/2A, 3.8/3	25-50%
67-64-1	acetone Danger: 2.6/2 Warning: 3.3/2A, 3.8/3	10-25%
123-86-4	n-butyl acetate Warning: 2.6/3; 3.8/3	10-25%
78-93-3	butanone Danger: 2.6/2 Warning: 3.3/2A, 3.8/3	2.5-10%
	MALEIC MODIFIED ROSIN RESIN Warning: 3.2/2, 3.3/2A, 3.8/3	2.5-10%
9004-70-0	CELLULOSE NITRATE Danger: 2.1 ; 3.1.O/3, 3.2/2, 3.3/2A, 3.8/3	2.5-10%
110-19-0	isobutyl acetate Danger: 2.6/2	1-2.5%
67-63-0	propan-2-ol Danger: 2.6/2 Warning: 3.3/2A, 3.8/3	1-2.5%
14808-60-7	Quartz (SiO ₂) Danger: 3.6/1B, 3.8/2 Warning: 3.3/2A	1-2.5%
1330-20-7	xylene Danger: 3.1.D/3, 3.1.I/4, 3.2/2 Warning: 2.6/3	1-2.5%
64742-94-5	Solvent naphtha (petroleum), heavy arom. Danger: 3.10/1	1-2.5%

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14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄) Warning:  3.2/2, 3.3/2A, 3.8/3	1-2.5%
1330-78-5	tris(methylphenyl) phosphate Danger:  3.8/1  4.1.C/2	1-2.5%
84-74-2	dibutyl phthalate Danger:  3.7/1B Warning:  4.1.A/1	≤1%
67-56-1	methanol Danger:  2.6/2;  3.1.O/2, 3.1.D/2, 3.1.I/2;  3.8/1	≤1%

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.

May cause cancer by inhalation.

May cause harm to the unborn child.

Highly flammable.

Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

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

Danger of serious damage to health by prolonged exposure.

Possible risk of harm to the unborn child.

Harmful: may cause lung damage if swallowed.

· 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)



Health = 2
Fire = 3
Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2
Fire = 3
Reactivity = 0

· GHS label elements



Danger

2.6/2 - Highly flammable liquid and vapour.

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Danger

- 3.6/1B - May cause cancer.
- 3.7/1B - May damage fertility or the unborn child.
- 3.8/1 - Causes damage to organs.
- 3.10/1 - May be fatal if swallowed and enters airways.



Warning

- 3.1/4 - Harmful if inhaled.
- 3.2/2 - Causes skin irritation.
- 3.3/2A - Causes serious eye irritation.

Prevention:

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/ equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Use personal protective equipment as required.

Response:

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- IF ON SKIN: Wash with plenty of soap and water.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed: Call a POISON CENTER or doctor/physician.
- IF exposed or concerned: Get medical advice/attention.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- Specific treatment (see label).
- Do NOT induce vomiting.
- If skin irritation occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.
- In case of fire: Use for extinction: CO2, powder or water spray.

Storage:

- Store in a well-ventilated place. Keep cool.
- Store locked up.

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- **Disposal:**
Dispose of contents/container in accordance with local/regional/national/international regulations.

4 First aid measures

- **General information:**
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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
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 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:** Mouth respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
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

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
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.

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- **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 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:**

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 75 mg/m³, 20 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

123-86-4 n-butyl acetate

PEL 710 mg/m³, 150 ppm

REL Short-term value: 950 mg/m³, 200 ppm

Long-term value: 710 mg/m³, 150 ppm

TLV Short-term value: 950 mg/m³, 200 ppm

Long-term value: 713 mg/m³, 150 ppm

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

110-19-0 isobutyl acetate

PEL 700 mg/m³, 150 ppm

REL 700 mg/m³, 150 ppm

TLV 713 mg/m³, 150 ppm

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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

14808-60-7 Quartz (SiO₂)

PEL see Quartz listing
 REL 0.05* mg/m³
 *respirable dust
 TLV 0.025 R mg/m³

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

84-74-2 dibutyl phthalate

PEL 5 mg/m³
 REL 5 mg/m³
 TLV 5 mg/m³

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.
- 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.

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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**

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

· **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55°C (131°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)

· **Density at 20°C (68°F):** 0.95 g/cm³

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

· **Solvent content:**

Organic solvents:	78.9 %
VOC content:	60.1 %
	568.4 g/l / 4.74 lb/gal

· **Solids content:** 20.9 %

USA

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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)
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:** 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 if inhaled.

12 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.

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.

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14 Transport information

· DOT regulations:



- Hazard class: 3
- Identification number: UN1263
- Packing group: II
- Proper shipping name (technical name): PAINT
- Label: 3

· 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
- Proper shipping name: PAINT

· Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1263
- Label: 3
- Packaging group: II
- Proper shipping name: PAINT

· UN "Model Regulation": UN1263; PAINT; 3; II



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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
14807-96-6	Talc (Mg3H2(SiO3)4)
84-74-2	dibutyl phthalate
67-56-1	methanol
	ACRYLIC RESIN
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
13463-67-7	titanium dioxide
110-19-0	isobutyl acetate
67-63-0	propan-2-ol
14808-60-7	Quartz (SiO2)
1330-20-7	xylene
64742-94-5	Solvent naphtha (petroleum), heavy arom.
14807-96-6	Talc (Mg3H2(SiO3)4)
1330-78-5	tris(methylphenyl) phosphate
84-74-2	dibutyl phthalate
108-65-6	2-methoxy-1-methylethyl acetate
7631-86-9	silicon dioxide, chemically prepared

· **Proposition 65**

· **Chemicals known to cause cancer:**

14808-60-7	Quartz (SiO2)
1330-20-7	xylene
68911-87-5	ALKYL QUATERNARY AMMONIUM MONTMORILLONITE
1333-86-4	Carbon black
91-20-3	naphthalene
95-63-6	1,2,4-trimethylbenzene
100-41-4	ethylbenzene

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· 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

· Cancerogenity categories

· EPA (Environmental Protection Agency)

108-88-3	toluene	D
67-64-1	acetone	D
78-93-3	butanone	D
1330-20-7	xylene	D
84-74-2	dibutyl phthalate	D
91-20-3	naphthalene	C; CBD
100-41-4	ethylbenzene	D

· IARC (International Agency for Research on Cancer)

108-88-3	toluene	3
13463-67-7	titanium dioxide	3
67-63-0	propan-2-ol	3
14808-60-7	Quartz (SiO ₂)	1
1330-20-7	xylene	3
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	3
68911-87-5	ALKYL QUATERNARY AMMONIUM MONTMORILLONITE	TRACE AMOUNTS OF 14808-60-7
7631-86-9	silicon dioxide, chemically prepared	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
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· TLV (Threshold Limit Value established by ACGIH)

108-88-3	toluene	A4
67-64-1	acetone	A4
13463-67-7	titanium dioxide	A4
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
91-20-3	naphthalene	A4

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

13463-67-7	titanium dioxide
14808-60-7	Quartz (SiO ₂)

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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:**

toluene

tris(methylphenyl) phosphate

dibutyl phthalate

Quartz (SiO₂)

· **Risk phrases:**

May cause cancer by inhalation.

May cause harm to the unborn child.

Highly flammable.

Harmful by inhalation.

Irritating to eyes, respiratory system and skin.

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

Danger of serious damage to health by prolonged exposure.

Possible risk of harm to the unborn child.

Harmful: may cause lung damage if swallowed.

· **Safety phrases:**

Avoid exposure - obtain special instructions before use.

Keep locked up and out of the reach of children.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Wear suitable protective clothing and gloves.

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: Reglement internationale concernent 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)

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Material Safety Data Sheet
acc. to ISO/DIS 11014



Printing date 01/31/2008

Reviewed on 01/31/2008

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VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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USA