



1 Identification

- **Product identifier**
- **Trade name:** 39671 39674 Hi VOC Self Etching Primer Black
- **Article number:** 39671 old, 39674 old
- **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 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



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).
- **Hazard pictograms**



GHS02



GHS07



GHS08

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· **Signal word** *Danger*

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

toluene

CELLULOSE NITRATE

Quartz (SiO₂)

acetone

· **Hazard statements**

H225 Highly flammable liquid and vapor.

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**

P201 Obtain special instructions before use.

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

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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

P264 Wash thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

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

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

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

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

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

P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

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USA

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· **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:**

108-88-3	toluene	13-30%
67-64-1	acetone	13-30%
123-86-4	n-butyl acetate	13-30%
78-93-3	butanone	7-10%
9004-70-0	CELLULOSE NITRATE	5-7%
14808-60-7	Quartz (SiO ₂)	1.5-5%
141-78-6	ethyl acetate	1.5-5%
110-19-0	isobutyl acetate	1.5-5%
67-63-0	propan-2-ol	1.5-5%
1330-20-7	xylene	1.5-5%
64742-94-5	Solvent naphtha (petroleum), heavy arom.	1.5-5%
1330-78-5	tris(methylphenyl) phosphate	1-1.5%
64-17-5	ethanol	≤1%

4 First-aid measures

· **Description of 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:** In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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- **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:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **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).
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:

108-88-3	toluene	67 ppm
67-64-1	acetone	200 ppm
123-86-4	n-butyl acetate	5 ppm
78-93-3	butanone	200 ppm
14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³
141-78-6	ethyl acetate	1,200 ppm
110-19-0	isobutyl acetate	450 ppm
67-63-0	propan-2-ol	400 ppm
1330-20-7	xylene	130 ppm
1333-86-4	Carbon black	9 mg/m ³
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
64-17-5	ethanol	1,800 ppm
6915-15-7	malic acid	4.8 mg/m ³

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Safety Data Sheet
acc. to OSHA HCS



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112945-52-5	SILICA	18 mg/m3
67-56-1	methanol	530 ppm
111-76-2	2-butoxyethanol	60 ppm
91-20-3	naphthalene	15 ppm
95-63-6	1,2,4-trimethylbenzene	140 ppm
100-41-4	ethylbenzene	33 ppm

· **PAC-2:**

108-88-3	toluene	560 ppm
67-64-1	acetone	3200* ppm
123-86-4	n-butyl acetate	200 ppm
78-93-3	butanone	2700* ppm
14808-60-7	Quartz (SiO ₂)	33 mg/m3
141-78-6	ethyl acetate	1,700 ppm
110-19-0	isobutyl acetate	1300* ppm
67-63-0	propan-2-ol	2000* ppm
1330-20-7	xylene	920* ppm
1333-86-4	Carbon black	99 mg/m3
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
64-17-5	ethanol	3300* ppm
6915-15-7	malic acid	53 mg/m3
112945-52-5	SILICA	100 mg/m3
67-56-1	methanol	2,100 ppm
111-76-2	2-butoxyethanol	120 ppm
91-20-3	naphthalene	83 ppm
95-63-6	1,2,4-trimethylbenzene	360 ppm
100-41-4	ethylbenzene	1100* ppm

· **PAC-3:**

108-88-3	toluene	3700* ppm
67-64-1	acetone	5700* ppm
123-86-4	n-butyl acetate	3000* ppm
78-93-3	butanone	4000* ppm
14808-60-7	Quartz (SiO ₂)	200 mg/m3
141-78-6	ethyl acetate	10000** ppm
110-19-0	isobutyl acetate	7500** ppm
67-63-0	propan-2-ol	12000** ppm
1330-20-7	xylene	2500* ppm
1333-86-4	Carbon black	590 mg/m3
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
64-17-5	ethanol	15000* ppm
6915-15-7	malic acid	320 mg/m3
112945-52-5	SILICA	630 mg/m3

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67-56-1	methanol	7200* ppm
111-76-2	2-butoxyethanol	700 ppm
91-20-3	naphthalene	500 ppm
95-63-6	1,2,4-trimethylbenzene	480 ppm
100-41-4	ethylbenzene	1800* ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
No special measures required.
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **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.
- **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.

108-88-3 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 ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV	Long-term value: 75 mg/m ³ , 20 ppm BEI

67-64-1 acetone

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

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123-86-4 n-butyl acetate

PEL Long-term value: 710 mg/m³, 150 ppm
REL Long-term value: 950 mg/m³, 200 ppm
TLV Short-term value: 712 mg/m³, 150 ppm
Long-term value: 238 mg/m³, 50 ppm

78-93-3 butanone

PEL Long-term value: 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 Long-term value: 0.05* mg/m³
*respirable dust; See Pocket Guide App. A
TLV Long-term value: 0.025* mg/m³
*as respirable fraction

141-78-6 ethyl acetate

PEL Long-term value: 1400 mg/m³, 400 ppm
REL Long-term value: 1400 mg/m³, 400 ppm
TLV Long-term value: 1440 mg/m³, 400 ppm

110-19-0 isobutyl acetate

PEL Long-term value: 700 mg/m³, 150 ppm
REL Long-term value: 700 mg/m³, 150 ppm
TLV Short-term value: 172 mg/m³, 150 ppm
Long-term value: 238 mg/m³, 50 ppm

67-63-0 propan-2-ol

PEL Long-term value: 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 Long-term value: 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

64-17-5 ethanol

PEL Long-term value: 1900 mg/m³, 1000 ppm
REL Long-term value: 1900 mg/m³, 1000 ppm

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TLV	Short-term value: 1880 mg/m ³ , 1000 ppm
· Ingredients with biological limit values:	
108-88-3 toluene	
BEI	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)
67-64-1 acetone	
BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
78-93-3 butanone	
BEI	2 mg/L Medium: urine Time: end of shift Parameter: MEK
67-63-0 propan-2-ol	
BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
1330-20-7 xylene	
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.

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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:	55 °C

· **Flash point:** -18 °C

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

· **Ignition temperature:** 370 °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:	1.2 Vol %
Upper:	13 Vol %

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· Vapor pressure at 20 °C:	233 hPa
· Density at 20 °C:	0.92219 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:	80.4 %
Water:	0.0 %
VOC content:	61.56 %
	577.6 g/l / 4.82 lb/gal
· Solids content:	18.5 %
· 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:		
108-88-3 toluene		
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 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

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Irritant

· **Carcinogenic categories**

· **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	3
1333-86-4	Carbon black	2B
64-17-5	ethanol	1
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

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

68911-87-5	montmorilontie clay complex	
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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.

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.

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

14 Transport information

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1263
- **UN proper shipping name**
- **DOT** Paint
- **ADR** 1263 Paint, special provision 640D
- **IMDG, IATA** PAINT

- **Transport hazard class(es)**
- **DOT**



- **Class** 3 Flammable liquids
- **Label** 3

- **ADR, IMDG, IATA**



- **Class** 3 Flammable liquids
- **Label** 3

- **Packing group**
- **DOT, ADR, IMDG, IATA** II

- **Environmental hazards:**
- **Marine pollutant:** No

- **Special precautions for user** Warning: Flammable liquids
- **EMS Number:** F-E, S-E
- **Stowage Category** B

- **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: 5 L
On cargo aircraft only: 60 L

- **ADR**
- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

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- | | |
|-----------------------------------|--|
| · IMDG | |
| · Limited quantities (LQ) | 5L |
| · Excepted quantities (EQ) | Code: E2 |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II |

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
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)
68038-41-5	Modified Rosin Ester
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.
1330-78-5	tris(methylphenyl) phosphate
18268-70-7	Tetraethylene Glycol Di 2-ethylhexoate

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14807-96-6	Talc
1333-86-4	Carbon black
68911-87-5	montmorilontie clay complex
108-65-6	2-methoxy-1-methylethyl acetate
64-17-5	ethanol
6915-15-7	malic acid
67-56-1	methanol
111-76-2	2-butoxyethanol
91-20-3	naphthalene
95-63-6	1,2,4-trimethylbenzene
100-41-4	ethylbenzene
7732-18-5	water

· **Proposition 65**

· **Chemicals known to cause cancer:**

14808-60-7	Quartz (SiO ₂)
1330-20-7	xylene
1333-86-4	Carbon black
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
67-56-1	methanol

· **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	NL
91-20-3	naphthalene	C, CBD
95-63-6	1,2,4-trimethylbenzene	II
100-41-4	ethylbenzene	D

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

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

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14808-60-7	Quartz (SiO ₂)	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
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

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

· **Hazard pictograms**



· **Signal word** *Danger*

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

toluene

CELLULOSE NITRATE

Quartz (SiO₂)

acetone

· **Hazard statements**

H225 Highly flammable liquid and vapor.

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**

P201 Obtain special instructions before use.

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

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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

P264 Wash thoroughly after handling.

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- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see on this label).
- P330 Rinse mouth.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- 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.

· **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)

· **Date of preparation / last revision** 09/20/2017 / 1

· **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

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OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Carc. 1A: Carcinogenicity – Category 1A

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

. * Data compared to the previous version altered.

USA