



Printing date 06/09/2005

Reviewed on 06/07/2005

1 Identification of substance

- **Product details**
- **Trade name:** 39131 39134 Flexible Primer Surface
- **Article number:** 39131;39134
- **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:**

14808-60-7	Quartz (SiO ₂)	25-50%
1330-20-7	xylene	25-50%
	ACRYLIC RESIN	10-25%
108-88-3	toluene	10-25%
123-86-4	n-butyl acetate	2.5-10%
78-93-3	butanone	2.5-10%
67-64-1	acetone	2.5-10%
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	≤ 2.5%

3 Hazards identification

- **Hazard description:**



Toxic

- **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.

Harmful by inhalation and in contact with skin.

Irritating to eyes, respiratory system and skin.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Harmful: possible risk of irreversible effects through inhalation.

Possible risk of harm to the unborn child.

- **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

(Contd. on page 2)

Printing date 06/09/2005

Reviewed on 06/07/2005

Trade name: 39131 39134 Flexible Primer Surface

(Contd. of page 1)

· **HMIS-ratings (scale 0 - 4)**

	2	Health = 2
	3	Fire = 3
	0	Reactivity = 0

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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **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.

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.

(Contd. on page 3)

Trade name: 39131 39134 Flexible Primer Surface

(Contd. of page 2)

- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

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:**

14808-60-7 Quartz (SiO₂)

REL 0.05* mg/m³
*Respirable dust
TLV (0.05 R) mg/m³
NIC-0.025 R

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
(o-, m-, & p-isomers)
TLV Short-term value: 651 mg/m³, 150 ppm
Long-term value: 434 mg/m³, 100 ppm
BEI

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

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

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

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

(Contd. on page 4)



Printing date 06/09/2005

Reviewed on 06/07/2005

Trade name: 39131 39134 Flexible Primer Surface

(Contd. of page 3)

· 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.
 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:

Safety glasses



Tightly sealed goggles

9 Physical and chemical properties
· General Information

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

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 51°C (124°F)

· Flash point: -19°C (-2°F)

· Ignition temperature: 370.0°C (698°F)

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: 1.1 Vol %

(Contd. on page 5)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014



Printing date 06/09/2005

Reviewed on 06/07/2005

Trade name: 39131 39134 Flexible Primer Surface

(Contd. of page 4)

Upper:	7.0 Vol %
· Vapor pressure at 20°C (68°F):	29.0 hPa (22 mm Hg)
· Density at 20°C (68°F):	1.20 g/cm ³
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Solvent content:	
Organic solvents:	51.1 %
VOC content:	48.1 %
	574.3 g/l / 4.79 lb/gl
· Solids content:	48.9 %

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:

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)

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 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.

USA

(Contd. on page 6)



Printing date 06/09/2005

Reviewed on 06/07/2005

Trade name: 39131 39134 Flexible Primer Surface

(Contd. of page 5)

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

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



- **ADR/RID class:** 3 Flammable liquids
- **Danger code (Kemler):** 33
- **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-E
- **Marine pollutant:** No
- **Proper shipping name:** PAINT

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



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263

(Contd. on page 7)

Printing date 06/09/2005

Reviewed on 06/07/2005

Trade name: 39131 39134 Flexible Primer Surface

(Contd. of page 6)

· Label	3
· Packaging group:	II
· Propper shipping name:	PAINT

15 Regulations

· Sara

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

1330-20-7	xylene
	ACRYLIC RESIN
108-88-3	toluene
78-93-3	butanone
14807-96-6	Talc (Mg3H2(SiO3)4)
100-41-4	ethylbenzene
67-56-1	methanol

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

14808-60-7	Quartz (SiO2)
1330-20-7	xylene
108-88-3	toluene
123-86-4	n-butyl acetate
78-93-3	butanone
13463-67-7	titanium dioxide
67-64-1	acetone
14807-96-6	Talc (Mg3H2(SiO3)4)
7631-86-9	silicon dioxide, chemically prepared
21645-51-2	aluminium hydroxide
1333-86-4	Carbon black
111-76-2	2-butoxyethanol
100-41-4	ethylbenzene
67-56-1	methanol

· **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

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

108-88-3	toluene
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· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	xylene	D
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(Contd. on page 8)

Trade name: 39131 39134 Flexible Primer Surface

(Contd. of page 7)

108-88-3	toluene	D
78-93-3	butanone	D
67-64-1	acetone	D
100-41-4	ethylbenzene	D

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

14808-60-7	Quartz (SiO ₂)	1
1330-20-7	xylene	3
108-88-3	toluene	3
13463-67-7	titanium dioxide	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
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)**

14808-60-7	Quartz (SiO ₂)	A2
1330-20-7	xylene	A4
108-88-3	toluene	A4
13463-67-7	titanium dioxide	A4
67-64-1	acetone	A4
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	A4
1333-86-4	Carbon black	A4

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

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

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

Quartz (SiO₂)
toluene
xylene

· **Risk phrases:**

May cause cancer by inhalation.
Harmful by inhalation and in contact with skin.
Irritating to eyes, respiratory system and skin.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Harmful: possible risk of irreversible effects through inhalation.
Possible risk of harm to the unborn child.

(Contd. on page 9)

Material Safety Data Sheet
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Trade name: 39131 39134 Flexible Primer Surface

(Contd. of page 8)

· 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:** Mr. George Wallace

USA