



1 Identification

- **Product identifier**
- **Trade name:** 39691, 39694 Low VOC Etch Primer Green RTS
- **Article number:** 39691, 39694
- **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 identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids - Category 2

H225 Highly flammable liquid and vapour.



GHS08 Health hazard

Carcinogenicity - Category 1A

H350 May cause cancer.

Reproductive Toxicity - Category 2

H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure - Category 1

H370 Causes damage to organs.

Specific Target Organ Toxicity - Repeated Exposure - Category 2

H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irritation - Category 2

H315 Causes skin irritation.

Eye Irritation - Category 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure - Category 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).

(Contd. on page 2)

Safety Data Sheet

according to HPR, Schedule 1



Printing date 03/21/2018

Reviewed on 09/26/2017

Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 1)

· **Hazard pictograms**

GHS02 GHS07 GHS08

· **Signal word** *Danger*· **Hazard-determining components of labeling:***toluene**Quartz (SiO₂)**acetone**butanone*· **Hazard statements***H225 Highly flammable liquid and vapour.**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, hot surfaces, sparks, open flames and other ignition sources. No smoking.**P233 Keep container tightly closed.**P240 Ground and bond container and receiving equipment.**P241 Use explosion-proof [electrical/ventilating/lighting] equipment.**P242 Use non-sparking tools.**P243 Take actions to prevent static discharges.**P260 Do not breathe dust/fume/gas/mist/vapours/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.**P321 Specific treatment (see on this label).**P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.**P332+P313 If skin irritation occurs: Get medical advice/attention.**P362+P364 Take off contaminated clothing and wash it before reuse.**P337+P313 If eye irritation persists: Get medical advice/attention.**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.*

(Contd. on page 3)

CA



Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 2)

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

· **Description:**

Mixture: consisting of the following components.
Weight percentages

· **Dangerous components:**

540-88-5	tert-butyl acetate	30-60% w/w
67-64-1	acetone	10-30% w/w
108-88-3	toluene	≥5-<10% w/w
78-93-3	butanone	3-7% w/w
64742-94-5	Solvent naphtha (petroleum), heavy arom.	1-5% w/w
9004-70-0	CELLULOSE NITRATE	1-5% w/w
14808-60-7	Quartz (SiO ₂)	1-5% w/w
123-86-4	n-butyl acetate	1-5% w/w
110-19-0	isobutyl acetate	1-5% w/w
67-63-0	propan-2-ol	0.5-1.5% w/w
1330-20-7	xylene	0.5-1.5% w/w
1330-78-5	tris(methylphenyl) phosphate	≥1-<1.5% w/w

4 First aid measures

· **Description of 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.

· **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.



Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 3)

5 Firefighting 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.

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.

(Contd. on page 5)



Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 4)

· **Control parameters**

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

540-88-5 tert-butyl acetate

EL Long-term value: 200 ppm

EV Long-term value: 950 mg/m³, 200 ppm

67-64-1 acetone

EL Short-term value: 500 ppm

Long-term value: 250 ppm

EV Short-term value: 750 ppm

Long-term value: 500 ppm

108-88-3 toluene

EL Long-term value: 20 ppm

R

EV Long-term value: 20 ppm

78-93-3 butanone

EL Short-term value: 100 ppm

Long-term value: 50 ppm

EV Short-term value: 885 mg/m³, 300 ppm

Long-term value: 590 mg/m³, 200 ppm

14808-60-7 Quartz (SiO₂)

EL Long-term value: 0.025 mg/m³

ACGIH A2; IARC 1

EV Long-term value: 0.10* mg/m³

*respirable fraction

123-86-4 n-butyl acetate

EL Long-term value: 20 ppm

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

Long-term value: 710 mg/m³, 150 ppm

110-19-0 isobutyl acetate

EL Long-term value: 150 ppm

EV Short-term value: 187 ppm

Long-term value: 150 ppm

67-63-0 propan-2-ol

EL Short-term value: 400 ppm

Long-term value: 200 ppm

EV Short-term value: 400 ppm

Long-term value: 200 ppm

1330-20-7 xylene

EL Short-term value: 150 ppm

Long-term value: 100 ppm

EV Short-term value: 650 mg/m³, 150 ppm

Long-term value: 435 mg/m³, 100 ppm

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

(Contd. on page 6)



Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 5)

· **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.

· **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: 55.8-56.6 °C

· **Flash point:** -18 °C

(Contd. on page 7)

Safety Data Sheet
according to HPR, Schedule 1



Printing date 03/21/2018

Reviewed on 09/26/2017

Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 6)

· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	465 °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:	2.6 Vol %
Upper:	13 Vol %
· Vapor pressure at 20 °C:	233 hPa
· Density at 20 °C:	0.91129 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:	84.1 %
VOC content:	25.71 %
	280.7 g/l / 2.34 lb/gal
Solids content:	15.9 %
· 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.

CA

(Contd. on page 8)



Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 7)

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:
Irritant
- **Carcinogenic categories**

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

108-88-3	toluene	3
14808-60-7	Quartz (SiO ₂)	1
13463-67-7	titanium dioxide	2B
67-63-0	propan-2-ol	3
1330-20-7	xylene	3
14807-96-6	Talc	3
1333-86-4	Carbon black	2B
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

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.

(Contd. on page 9)

Safety Data Sheet

according to HPR, Schedule 1



Printing date 03/21/2018

Reviewed on 09/26/2017

Trade name: 39691, 39694 Low VOC Etch Primer Green RTS



(Contd. of page 8)

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

14 Transport information

- **UN-Number**
- **DOT, TDG, IMDG, IATA** UN1263
- **UN proper shipping name**
- **DOT** Paint
- **TDG** 1263 Paint, special provision 640D
- **IMDG, IATA** PAINT
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 3 Flammable liquids
- **Label** 3
- **TDG, IMDG, IATA**
- 
- **Class** 3 Flammable liquids
- **Label** 3
- **Packing group**
- **DOT, TDG, IMDG, IATA** II
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Flammable liquids
- **EMS Number:** F-E, S-D
- **Stowage Category** B
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

(Contd. on page 10)

CA



Printing date 03/21/2018

Reviewed on 09/26/2017

Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 9)

· **Transport/Additional information:**

· **DOT**

· **Quantity limitations**

On passenger aircraft/rail: 5 L

On cargo aircraft only: 60 L

· **Remarks**

ORM-D 409CFR 173-150,156,306

· **TDG**

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· **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
91-20-3	naphthalene
	Acrylic Resin
100-41-4	ethylbenzene
122-99-6	2-Phenoxyethanol
95-63-6	1,2,4-trimethylbenzene
104-68-7	Diethylene glycol monophenyl ether

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

540-88-5	tert-butyl acetate
67-64-1	acetone
108-88-3	toluene
78-93-3	butanone
64742-94-5	Solvent naphtha (petroleum), heavy arom.
9004-70-0	CELLULOSE NITRATE
68038-41-5	Modified Rosin Ester

(Contd. on page 11)



Printing date 03/21/2018

Reviewed on 09/26/2017

Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 10)

14808-60-7	Quartz (SiO ₂)
123-86-4	n-butyl acetate
13463-67-7	titanium dioxide
110-19-0	isobutyl acetate
67-63-0	propan-2-ol
1330-20-7	xylene
1330-78-5	tris(methylphenyl) phosphate
14807-96-6	Talc
18268-70-7	Tetraethylene Glycol Di 2-ethylhexoate
108-65-6	2-methoxy-1-methylethyl acetate
1333-86-4	Carbon black
68911-87-5	montmorilontie clay complex
51274-00-1	YELLOW IRON OXIDE
6915-15-7	malic acid
1328-53-6	PHTHALO GREEN PIGMENT
91-20-3	naphthalene
100-41-4	ethylbenzene
122-99-6	2-Phenoxyethanol
95-63-6	1,2,4-trimethylbenzene
57-55-6	Methyl glycol
78-83-1	butanol
104-68-7	Diethylene glycol monophenyl ether

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

67-64-1	acetone
108-88-3	toluene
78-93-3	butanone
64742-94-5	Solvent naphtha (petroleum), heavy arom.
9004-70-0	CELLULOSE NITRATE
68038-41-5	Modified Rosin Ester
14808-60-7	Quartz (SiO ₂)
123-86-4	n-butyl acetate
13463-67-7	titanium dioxide
110-19-0	isobutyl acetate
67-63-0	propan-2-ol
1330-20-7	xylene
1330-78-5	tris(methylphenyl) phosphate
14807-96-6	Talc
18268-70-7	Tetraethylene Glycol Di 2-ethylhexoate
108-65-6	2-methoxy-1-methylethyl acetate
1333-86-4	Carbon black

(Contd. on page 12)

Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 11)

68911-87-5	montmorillonite clay complex
51274-00-1	YELLOW IRON OXIDE
6915-15-7	malic acid
112945-52-5	SILICA
1328-53-6	PHTHALO GREEN PIGMENT
91-20-3	naphthalene
100-41-4	ethylbenzene
122-99-6	2-Phenoxyethanol
95-63-6	1,2,4-trimethylbenzene
57-55-6	Methyl glycol
78-83-1	butanol
104-68-7	Diethylene glycol monophenyl ether

· **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

540-88-5	tert-butyl acetate
67-64-1	acetone
108-88-3	toluene
78-93-3	butanone
14808-60-7	Quartz (SiO ₂)
123-86-4	n-butyl acetate
110-19-0	isobutyl acetate
67-63-0	propan-2-ol
1330-78-5	tris(methylphenyl) phosphate

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

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** *Danger*

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

toluene

Quartz (SiO₂)

acetone

butanone

· **Hazard statements**

H225 Highly flammable liquid and vapour.

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.

(Contd. on page 13)

Safety Data Sheet

according to HPR, Schedule 1



Printing date 03/21/2018

Reviewed on 09/26/2017

Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 12)

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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
- P242 Use non-sparking tools.
- P243 Take actions to prevent static discharges.
- P260 Do not breathe dust/fume/gas/mist/vapours/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.
- P321 Specific treatment (see on this label).
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- 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:** Rita Joiner (rjoiner@semproducts.com)

· **Date of preparation / last revision** 03/21/2018 / 9

· **Abbreviations and acronyms:**

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

(Contd. on page 14)

CA

Safety Data Sheet
according to HPR, Schedule 1



Printing date 03/21/2018

Reviewed on 09/26/2017

Trade name: 39691, 39694 Low VOC Etch Primer Green RTS

(Contd. of page 13)

*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**** Data compared to the previous version altered.**

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