

## 1 Identification

- **Product identifier**
- **Trade name:** 39803 Clear Chip Guard
- **Article number:** 39803
- **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 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

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).

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· **Hazard pictograms**



GHS02 GHS04 GHS07 GHS08

· **Signal word** *Danger*

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

toluene  
acetone  
butanone

· **Hazard statements**

H222 *Extremely flammable aerosol.*  
H280 *Contains gas under pressure; may explode if heated.*  
H315 *Causes skin irritation.*  
H319 *Causes serious eye irritation.*  
H361 *Suspected of damaging fertility or the unborn child.*  
H336 *May cause drowsiness or dizziness.*  
H373 *May cause damage to organs through prolonged or repeated exposure.*  
H304 *May be fatal if swallowed and enters airways.*

· **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.*  
P211 *Do not spray on an open flame or other ignition source.*  
P251 *Pressurized container: Do not pierce or burn, even after use.*  
P260 *Do not breathe dust/fume/gas/mist/vapors/spray.*  
P264 *Wash thoroughly after handling.*  
P271 *Use only outdoors or in a well-ventilated area.*  
P280 *Wear protective gloves/protective clothing/eye protection/face protection.*  
P301+P310 *If swallowed: Immediately call a poison center/doctor.*  
P321 *Specific treatment (see on this label).*  
P331 *Do NOT induce vomiting.*  
P302+P352 *If on skin: Wash with plenty of water.*  
P304+P340 *IF INHALED: Remove person to fresh air and keep comfortable for breathing.*  
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.*  
P312 *Call a poison center/doctor if you feel unwell.*  
P314 *Get medical advice/attention if you feel unwell.*  
P362+P364 *Take off contaminated clothing and wash it before reuse.*  
P332+P313 *If skin irritation occurs: Get medical advice/attention.*  
P337+P313 *If eye irritation persists: Get medical advice/attention.*  
P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*  
P405 *Store locked up.*  
P410+P403 *Protect from sunlight. Store in a well-ventilated place.*  
P410+P412 *Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.*  
P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

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- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	4	Fire = 4
REACTIVITY	3	Reactivity = 3

- **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	30-40%
68476-86-8	Petroleum gases, liquefied, sweetened	13-30%
67-64-1	acetone	13-30%
78-93-3	butanone	5-7%
2807-30-9	2-(propyloxy)ethanol	1.5-5%

### 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.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **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:**  
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
78-93-3	butanone	200 ppm
2807-30-9	2-(propyloxy)ethanol	2.2 ppm

· **PAC-2:**

108-88-3	toluene	560 ppm
67-64-1	acetone	3200* ppm
78-93-3	butanone	2700* ppm
2807-30-9	2-(propyloxy)ethanol	24 ppm

· **PAC-3:**

108-88-3	toluene	3700* ppm
67-64-1	acetone	5700* ppm
78-93-3	butanone	4000* ppm
2807-30-9	2-(propyloxy)ethanol	140 ppm

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **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.  
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.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Observe official regulations on storing packagings with pressurized containers.

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- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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**

<i>PEL</i>	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
<i>REL</i>	Short-term value: 560 mg/m <sup>3</sup> , 150 ppm Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
<i>TLV</i>	Long-term value: 75 mg/m <sup>3</sup> , 20 ppm <i>BEI</i>

**67-64-1 acetone**

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

**78-93-3 butanone**

<i>PEL</i>	Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
<i>REL</i>	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm
<i>TLV</i>	Short-term value: 885 mg/m <sup>3</sup> , 300 ppm Long-term value: 590 mg/m <sup>3</sup> , 200 ppm <i>BEI</i>

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**· 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

**· 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.

**· 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.

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· **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**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Aerosol
· <b>Color:</b>	According to product specification
· <b>Odor:</b>	Characteristic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	55 °C

· **Flash point:** -103 °C

· **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:**

· <b>Lower:</b>	1.2 Vol %
· <b>Upper:</b>	13 Vol %

· **Vapor pressure at 20 °C:** 233 hPa

· <b>Density at 20 °C:</b>	0.75288 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not applicable.

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix.

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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:* Not determined.
  - Kinematic:* Not determined.
- **Solvent content:**
  - Organic solvents:* 86.3 %
  - VOC content:* 65.58 %
  - 615.3 g/l / 5.13 lb/gl
- **Solids content:** 13.7 %
- **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:  
Irritant
- **Carcinogenic categories**

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

108-88-3 toluene	3
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

**14 Transport information**

- **UN-Number**
- **DOT, ADR, IMDG, IATA** UN1950
- **UN proper shipping name**
- **DOT** Aerosols, flammable
- **ADR** 1950 Aerosols
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

· **Transport hazard class(es)**

· **DOT**





· **Class**

2.1

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· <b>Label</b>	2.1
· <b>ADR</b>	
	
· <b>Class</b>	2 5F Gases
· <b>Label</b>	2.1
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	2.1
· <b>Label</b>	2.1
· <b>Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	Void
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Gases
· <b>EMS Number:</b>	F-D,S-U
· <b>Stowage Code</b>	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
· <b>Segregation Code</b>	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
· <b>ADR</b>	
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity

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· UN "Model Regulation": UN 1950 AEROSOLS, 2.1

**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

Acrylic Resin

78-93-3 butanone

· TSCA (Toxic Substances Control Act):

108-88-3 toluene

67-64-1 acetone

78-93-3 butanone

2807-30-9 2-(propyloxy)ethanol

9004-36-8 Cellulose Acetate Butyrate

· TSCA new (21st Century Act) (Substances not listed)

68476-86-8 Petroleum gases, liquefied, sweetened

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· 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

II

67-64-1 acetone

I

78-93-3 butanone

I

· TLV (Threshold Limit Value established by ACGIH)

108-88-3 toluene

A4

67-64-1 acetone

A4

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

None of the ingredients is listed.

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

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· **Hazard pictograms**



GHS02 GHS04 GHS07 GHS08

· **Signal word** *Danger*

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

toluene  
acetone  
butanone

· **Hazard statements**

H222 *Extremely flammable aerosol.*  
H280 *Contains gas under pressure; may explode if heated.*  
H315 *Causes skin irritation.*  
H319 *Causes serious eye irritation.*  
H361 *Suspected of damaging fertility or the unborn child.*  
H336 *May cause drowsiness or dizziness.*  
H373 *May cause damage to organs through prolonged or repeated exposure.*  
H304 *May be fatal if swallowed and enters airways.*

· **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.*  
P211 *Do not spray on an open flame or other ignition source.*  
P251 *Pressurized container: Do not pierce or burn, even after use.*  
P260 *Do not breathe dust/fume/gas/mist/vapors/spray.*  
P264 *Wash thoroughly after handling.*  
P271 *Use only outdoors or in a well-ventilated area.*  
P280 *Wear protective gloves/protective clothing/eye protection/face protection.*  
P301+P310 *If swallowed: Immediately call a poison center/doctor.*  
P321 *Specific treatment (see on this label).*  
P331 *Do NOT induce vomiting.*  
P302+P352 *If on skin: Wash with plenty of water.*  
P304+P340 *IF INHALED: Remove person to fresh air and keep comfortable for breathing.*  
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.*  
P312 *Call a poison center/doctor if you feel unwell.*  
P314 *Get medical advice/attention if you feel unwell.*  
P362+P364 *Take off contaminated clothing and wash it before reuse.*  
P332+P313 *If skin irritation occurs: Get medical advice/attention.*  
P337+P313 *If eye irritation persists: Get medical advice/attention.*  
P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*  
P405 *Store locked up.*  
P410+P403 *Protect from sunlight. Store in a well-ventilated place.*  
P410+P412 *Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.*  
P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

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· **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** 03/14/2018 / 9

· **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*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*BEI: Biological Exposure Limit*

*Flam. Aerosol 1: Aerosols – Category 1*

*Press. Gas: Gases under pressure – Compressed gas*

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

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

*Repr. 2: Reproductive toxicity – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

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

*Asp. Tox. 1: Aspiration hazard – Category 1*

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