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Reviewed on 01/08/2016

1 Identification

- · Product identifier
- · Trade name: 39803 Clear Chip Guard
- Article number: 39803
- · Application of the substance / the mixture Coating
- \cdot 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). (Contd. on page 2)

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· Hazard pictogra	(Contd. of page 1)
, she	
GHS02 GHS	S04 GHS07 GHS08
Signal word Da	inger
· Hazard-determ	ining components of labeling:
toluene	6 I V 6
acetone	
butanone	
Cellulose Aceta	te Butyrate
Hazard stateme	ents
H222 Extremely	y flammable aerosol.
	gas under pressure; may explode if heated.
H315 Causes sk	kin irritation.
H319 Causes se	erious eye irritation.
	l of damaging fertility or the unborn child.
	e drowsiness or dizziness.
•	e damage to organs through prolonged or repeated exposure.
	ital if swallowed and enters airways.
• Precautionary s	
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P211	Do not spray on an open flame or other ignition source.
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
D221	and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P304+P340	<i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i>
P312	Call a POISON CENTER/doctor if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313 P337+P313	If skin irritation occurs: Get medical advice/attention.
P314	If eye irritation persists: Get medical advice/attention.
P331	Get medical advice/attention if you feel unwell. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403 P410+P403	Store tocked up. Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
	(Contd. on page 3)

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- Classification system:
 NFPA ratings (scale 0 4)
 Health = 2 Fire = 4 Reactivity = 3
 HMIS-ratings (scale 0 - 4)
 HEALTH ⁽²⁾ Fire = 4 REACTIVITY ⁽³⁾
 Health = *2 Fire = 4 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		13 - 30%
	butanone	5 - 7%
	2-(propyloxy)ethanol	1.5 - 5%
9004-36-8	Cellulose Acetate Butyrate	1.5 - 5%
	NJ TSRN: 8009285004 Polyester Plasticizer	1.5 - 5%

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- 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.

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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. • Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- 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.

7 Handling and storage

· Handling:

- · Precautions for safe handling
- No special measures required.
- Ensure good ventilation/exhaustion at the workplace.
- Open and handle receptacle with care.
- · 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.
- Keep respiratory protective device available.

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.
- · 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.

(Contd. on page 5)

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Cont	rol parameters	(Contd. of pa
	ponents with limit values that require monitoring at the workplace:	
	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/m³, 150 ppm	
	Long-term value: 375 mg/m ³ , 100 ppm	
TLV	Long-term value: 75 mg/m³, 20 ppm BEI	
67-64	4-1 acetone	
PEL	Long-term value: 2400 mg/m ³ , 1000 ppm	
REL	Long-term value: 590 mg/m³, 250 ppm	
	Short-term value: 1187 mg/m ³ , 500 ppm	
	Long-term value: 594 mg/m ³ , 250 ppm	
	BEI	
78 - 93	3-3 butanone	
PEL	Long-term value: 590 mg/m ³ , 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	
Ingre	edients with biological limit values:	
108-8	88-3 toluene	
	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	4-1 acetone	
	50 mg/L	
	Medium: urine	
	Time: end of shift	
	Parameter: Acetone (nonspecific)	
		(Contd. on pag

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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. Avail contact with the cuse and shire

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

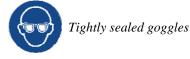
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:

Safety glasses



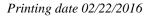
9 Physical and chemical properties

- \cdot Information on basic physical and chemical properties
- General Information
- · Appearance:
- Form:
- Color: • Odor:

Aerosol According to product specification Characteristic

(Contd. on page 7)

(Contd. of page 5)





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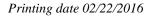
	(Contd. of page
· Odor threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 55 °C
· Flash point:	-103 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	465 °C
• Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.
· Explosion limits: Lower: Upper:	1.2 Vol % 13.0 Vol %
• Vapor pressure at 20 °C:	233 hPa
· Density at 20 °C: · Relative density · Vapor density · Evaporation rate	0.75288 g/cm ³ Not determined. Not determined. Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wat	ter): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents: VOC content:	86.3 % 65.6 % 615.3 g/l / 5.13 lb/gl
Solids content: • Other information	13.7 % 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.

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· 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	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative		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: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-88-3 toluene

· NTP (National Toxicology Program)

None of the ingredients is listed.

· 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.

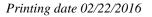
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB**: Not applicable.
- · Other adverse effects No further relevant information available.

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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 Tr

*

UN-Number DOT, ADR, IMDG, IATA	UN1950	
UN proper shipping name DOT, IATA ADR IMDG	Aerosols, flammable 1950 Aerosols AEROSOLS	
Transport hazard class(es)		
DOT		
r antite ca		
Class	2.1	
Label ADR	2.1	
Class	2 5F Gases	
Label	2.1	
IMDG, IATA		
Class	2.1	
Label	2.1	
Packing group DOT, ADR, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Warning: Gases	
-		(Contd. on page

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	(Contd. of page
EMS Number:	F-D,S-U
Stowage Code	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 livin quarters.
Segregation Code	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. Fo
	WASTE AEROSOLS: Segregation as for the appropriate subdivision
	of class 2.
Transport in bulk according to Anne	ex II of
MARPOL73/78 and the IBC Code	Not applicable.
MARIN OE/5//0 unu inc IBC Cout	Noi uppicable.
Transport/Additional information:	
Transport/Additional information:	On passenger aircraft/rail: 75 kg
Transport/Additional information: DOT	
Transport/Additional information: DOT	On passenger aircraft/rail: 75 kg
Transport/Additional information: DOT Quantity limitations	On passenger aircraft/rail: 75 kg
Transport/Additional information: DOT Quantity limitations ADR	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
Transport/Additional information: DOT Quantity limitations ADR	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg Code: E0
Transport/Additional information: DOT Quantity limitations ADR Excepted quantities (EQ)	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg Code: E0
Transport/Additional information: DOT Quantity limitations ADR Excepted quantities (EQ) IMDG	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity
Transport/Additional information: DOT Quantity limitations ADR Excepted quantities (EQ) IMDG Limited quantities (LQ)	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg Code: E0 Not permitted as Excepted Quantity 1L

15 Regulatory information

*

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):			
None of the	None of the ingredient is listed.		
· Section 313	· Section 313 (Specific toxic chemical listings):		
108-88-3 to	oluene		
A	CRYLIC RESIN		
78-93-3 b	utanone		
· TSCA (Tox	· TSCA (Toxic Substances Control Act):		
108-88-3	toluene		
68476-86-8	Petroleum gases, liquefied, sweetened		
67-64-1	acetone		
78-93-3	butanone		
2807-30-9	2-(propyloxy)ethanol		
9004-36-8	Cellulose Acetate Butyrate		
<u> </u>	(Contd. on page 11)		
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· Proposition 65		(Contd. of page 10)
· Chemicals know	n to cause cancer:	
None of the ingre		
	to cause reproductive toxicity for females:	
108-88-3 toluene		
	n to cause reproductive toxicity for males:	
None of the ingre	dients is listed.	
	n to cause developmental toxicity:	
108-88-3 toluene		
· Cancerogenity co	•	
· EPA (Environme	ntal Protection Agency)	
108-88-3 toluene		II
67-64-1 aceton	0	Ι
78-93-3 butano	ne	Ι
• TLV (Threshold	Limit Value established by ACGIH)	
108-88-3 toluene	• •	A4
67-64-1 aceton		A4
None of the ingre	onal Institute for Occupational Safety and Health)	
GHS02 GHS0	04 GHS07 GHS08	
GIIB02 GIIB0		
· Signal word Dan	ger	
toluene acetone	ing components of labeling:	
butanone Cellulose Acetate	Ruturate	
• Hazard statemen		
	Tammable aerosol.	
H280 Contains g	as under pressure; may explode if heated.	
H315 Causes skir		
	ous eye irritation.	
	of damaging fertility or the unborn child. drowsiness or dizziness.	
	damage to organs through prolonged or repeated exposure.	
	I if swallowed and enters airways.	
· Precautionary st		
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.	
P251	Do not pierce or burn, even after use.	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.	
P211	Do not spray on an open flame or other ignition source.	(Contd. on page 12

(Contd. on page 12)

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	(Contd. of page 11)
P280	Wear protective gloves.
P280	Wear eye protection / face protection.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305+P351+P338	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
	and easy to do. Continue rinsing.
P321	Specific treatment (see on this label).
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· 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 02/22/2016 / 8
- · 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 (Contd. on page 13)



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TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Press. Gas: Gases under pressure: Compressed gas Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Repr. 2: Reproductive toxicity, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 Asp. Tox. 1: Aspiration hazard, Hazard Category 1 • * Data compared to the previous version altered.

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