

Printing date 03/14/2018



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1 Identification

- · Product identifier
- · Trade name: 40820 Pro-Tex Chip Guard Kit with hardener
- Article number: 40820 kit
- · 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 Flame

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



Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
STOT SE 2 H371 May cause damage to organs.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements

• *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: HDI Prepolymer Talc

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FIRE

3 *Fire* = 3 **REACTIVITY O** *Reactivity* = 0 Safety Data Sheet acc. to OSHA HCS



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	(Contd. of page
acetone	
n-butyl acetate	
Hazard stateme	
	ammable liquid and vapor.
H315 Causes sh	
	erious eye irritation.
	se allergy or asthma symptoms or breathing difficulties if inhaled.
	se an allergic skin reaction.
	se damage to organs.
Precautionary s	
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.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P303+P361+P	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wate shower.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if preserved
	and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a poison center/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a poison center/doctor.
P363	Wash contaminated clothing 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/internation
1.501	regulations.
Classification s	
NFPA ratings (
•	5000 0 - 1 /
	Iealth = 2
F	Fire = 3
$\sim 0 R$	Reactivity = 0
\checkmark	
HMIS-ratings ((scale 0 - 4)
HEALTH *2	Health = *2 $Fire = 3$

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- · 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

28182-81-2 HDI Prepolymer 13-30% 14807-96-6 Talc 10-13% 67-64-1 acetone 10-13% 123-86-4 n-butyl acetate 1.5-5% 110-43-0 heptan-2-one 1.5-5% 763-69-9 ethyl 3-ethoxypropionate 1.5-5%	· Dangerous components:			
67-64-1 acetone 10-13% 123-86-4 n-butyl acetate 1.5-5% 110-43-0 heptan-2-one 1.5-5%	28182-81-2	HDI Prepolymer	13-30%	
123-86-4 n-butyl acetate 1.5-5% 110-43-0 heptan-2-one 1.5-5%	14807-96-6	Talc	10-13%	
110-43-0 heptan-2-one 1.5-5%			10-13%	
			1.5-5%	
763-69-9 ethyl 3-ethoxypropionate 1 5-5%	110-43-0	heptan-2-one	1.5-5%	
			1.5-5%	
112945-52-5 SILICA 1-1.5%	112945-52-5	SILICA	1-1.5%	

4 First-aid measures

· Description of first aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

- 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:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- \cdot 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.

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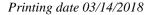
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Wear protect Environment Methods and Absorb with a Dispose cont Ensure adequ Reference to See Section 7 See Section 8 See Section 1	cautions, protective equipment and emergency procedures ive equipment. Keep unprotected persons away. (a) precautions: Do not allow to enter sewers/ surface or ground water. (material for containment and cleaning up: (iquid-binding material (sand, diatomite, acid binders, universal binders, say (aminated material as waste according to item 13. (ate ventilation.) (other sections) for information on safe handling. for information on personal protection equipment. 3 for disposal information. (tion Criteria for Chemicals)	wdust).
PAC-1:		
	HDI Prepolymer	7.8 mg/m
	acetone	200 ppm
123-86-4	n-butyl acetate	5 ppm
110-43-0	heptan-2-one	150 ppm
763-69-9	ethyl 3-ethoxypropionate	1.6 ppm
112945-52-5		18 mg/m ³
1330-20-7	xylene	130 ppm
100-41-4	ethylbenzene	33 ppm
108-83-8	2,6-dimethylheptan-4-one	75 ppm
PAC-2:		
28182-81-2	HDI Prepolymer	86 mg/m ³
67-64-1	acetone	3200* ppn
123-86-4	n-butyl acetate	200 ppm
110-43-0	heptan-2-one	670 ppm
	ethyl 3-ethoxypropionate	18 ppm
112945-52-5	SILICA	100 mg/m ⁻
1330-20-7	xylene	920* ppm
100-41-4	ethylbenzene	1100* ppn
108-83-8	2,6-dimethylheptan-4-one	330 ppm
PAC-3:		J
	HDI Prepolymer	510 mg/m-
	acetone	5700* ppn
	n-butyl acetate	3000* ppm
	heptan-2-one	4000* ppn
	ethyl 3-ethoxypropionate	110 ppm
112945-52-5		630 mg/m
1330-20-7		2500* ppn
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108-83-8 2,6-dimethylheptan-4-one

(Contd. of page 4) 2000* 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.

67-64-1 acetone

- PEL Long-term value: 2400 mg/m³, 1000 ppm
- *REL* Long-term value: 590 mg/m³, 250 ppm
- TLV Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI

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

110-43-0 heptan-2-one

- PEL Long-term value: 465 mg/m³, 100 ppm
- REL Long-term value: 465 mg/m³, 100 ppm
- TLV Long-term value: 233 mg/m³, 50 ppm

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(Contd. of page 5) · Ingredients with biological limit values: 67-64-1 acetone BEI 50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific) • 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. 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: Tightly sealed goggles **9** Physical and chemical properties

Information on basic physical and chemical properties
 General Information
 Appearance:

 Form:
 Color:
 According to product specification
 Odor:
 Characteristic
 Not determined.

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	(Contd. of page	
· pH-value:	Not determined.	
· Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 55 °C	
· Flash point:	-18 °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:	2.6 Vol % 13 Vol %	
Vapor pressure at 20 °C:	233 hPa	
Density at 20 °C: Relative density Vapor density Evaporation rate	1.14226 g/cm ³ Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/water): Not determined.		
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content: Organic solvents: VOC content:	23.0 % 11.01 % 163.7 g/l / 1.37 lb/gl	
Solids content: Other information	76.9 % 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.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$

· Hazardous decomposition products: No dangerous decomposition products known.

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	HDI Pronolymor		
Oral I	28182-81-2 HDI Prepolymer		
	Oral LD50 1,000 mg/kg (rat)		
Dermal L	LD50 5,000 mg/kg (rabbit)		
Inhalative L	LC50/4 h 137-1,150 mg/l (rat)		
 Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect. Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) 			
<u> </u>	5		
· IARC (Inter	rnational Agency for Research on Cancer)		
• IARC (Inter 14807-96-6	Talc	-	
• IARC (Inter 14807-96-6 1330-20-7	Talc		

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.
- \cdot *Mobility in soil* No further relevant information available.
- Additional ecological information:

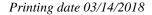
· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

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· Other adverse effects No further relevant information available.

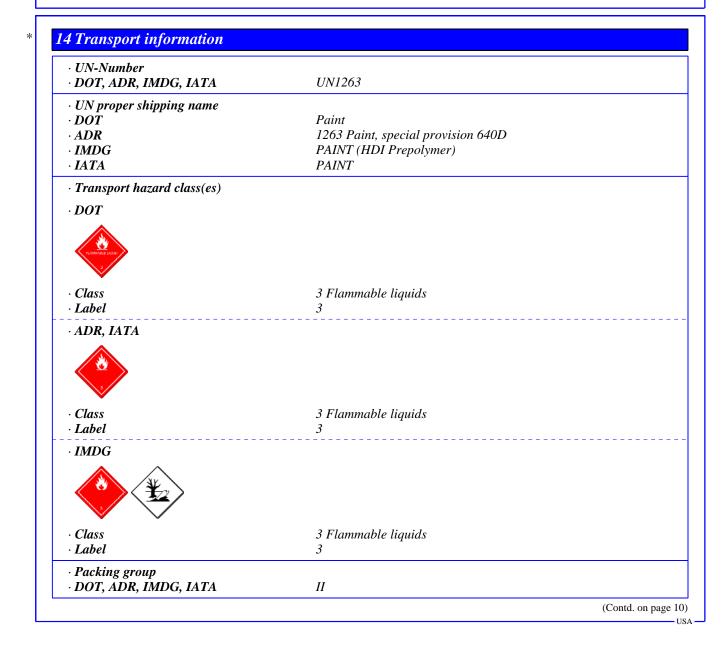
13 Disposal considerations

· 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.





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	(Contd. of page
· Environmental hazards:	Product contains environmentally hazardous substances: HL Prepolymer
· Marine pollutant:	No
<i>F</i>	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids
· EMS Number:	<i>F-E,<u>S-E</u></i>
· 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	
\cdot 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)	1L
· Excepted quantities $(\widetilde{E}Q)$	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

 \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):			
	Acrylic Resin			
14807-96-6	Talc			
1330-20-7	xylene			
100-41-4	ethylbenzene			
· TSCA (Toxi	· TSCA (Toxic Substances Control Act):			
28182-81-2	HDI Prepolymer			
14807-96-6	Talc			
67-64-1	acetone			
123-86-4	n-butyl acetate			
110-43-0	heptan-2-one			
763-69-9	ethyl 3-ethoxypropionate			
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	(Contd. of page
1330-20-7 xylene	
9038-95-3 OXIRANE, ME, POLYMER	
100-41-4 ethylbenzene	
108-83-8 2,6-dimethylheptan-4-one	
19549-80-5 4,6-dimethylheptan-2-one	
TSCA new (21st Century Act) (Substances not listed)	
112945-52-5 SILICA	
Proposition 65	
Chemicals known to cause cancer:	
1330-20-7 xylene	
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:	
None of the ingredients is listed.	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
67-64-1 acetone	1
1330-20-7 xylene	Ĺ
100-41-4 ethylbenzene	1
TLV (Threshold Limit Value established by ACGIH)	
14807-96-6 Talc	A
67-64-1 acetone	A
1330-20-7 xylene	A
100-41-4 ethylbenzene	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

· Hazard pictograms



· Signal word Danger

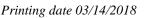
 Hazard-determining components of labeling: HDI Prepolymer Talc acetone n-butyl acetate
 Hazard statements

H225 Highly flammable liquid and vapor.

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	(Contd. of page 11)
H315 Causes sk	
	erious eye irritation.
	e allergy or asthma symptoms or breathing difficulties if inhaled.
	e an allergic skin reaction.
	e damage to organs.
• Precautionary s	
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.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
<i>P303+P361+P</i> .	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P341	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a poison center/doctor.
P362+P364	Take off contaminated clothing and wash it before reuse.
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P321	Specific treatment (see on this label).
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a poison center/doctor.
P363	Wash contaminated clothing 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.
Chamia al a afat	an annual A Chamical Safaty Assagament has not been agained out

· 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 / 7
- 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

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	(Contd. of page 12)
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. Liq. 2: Flammable liquids – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A	
Resp. Sens. 1: Respiratory sensitisation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
STOT SE 2: Specific target organ toxicity (single exposure) – Category 2	
• * Data compared to the previous version altered.	
	USA