



Reviewed on 11/17/2015

## **1** Identification

- · Product identifier
- · Trade name: 77723 XXX Plastic Adhesion Promoter
- Article number: 77723
- · 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 1* H372 Causes damage to the central nervous system 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)
  - USA

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Hazand nistoon	(Contd. of page
Hazard pictogra	ams
GHS02 GHS	504 GHS07 GHS08
GH502 GH3	504 GH507 GH508
Signal word Da	nger
	ining components of labeling:
toluene	(notrolown) modium alink
acetone	u (petroleum), medium aliph.
n-butyl acetate	
Hazard stateme	nts
	ns flammable aerosol.
	gas under pressure; may explode if heated.
H315 Causes sk	
	rious eye irritation.
	l of damaging fertility or the unborn child.
	e drowsiness or dizziness.
	amage to the central nervous system 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.
P270	Do not eat, drink or smoke when using this product.
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 pres
	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 P331	Get medical advice/attention if you feel unwell. Do NOT induce vomiting.
P331 P302+P352	ů – Elektrik
P302+P352 P362+P364	IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before rause
P302+P304 P405	Take off contaminated clothing and wash it before reuse. Store locked up.
P403 P410+P403	Store tocked up. Protect from sunlight. Store in a well-ventilated place.
1 410 7 5 403	i roleci from sunughi. Store in a wen-venitalea place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding $50^{\circ}C/122^{\circ}F$ .

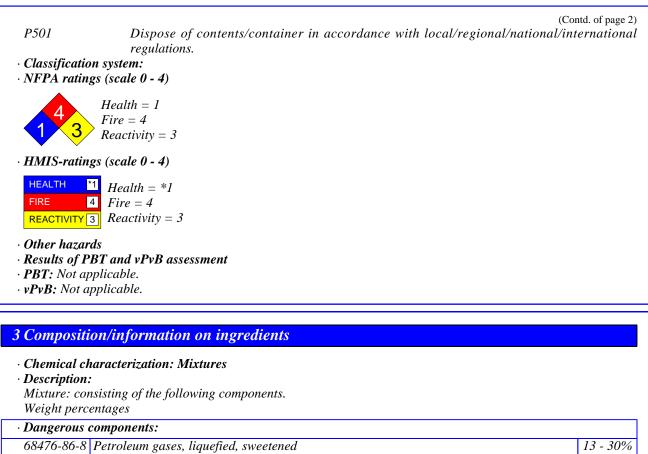
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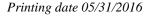
68476-86-8	Petroleum gases, liquefied, sweetened	13 - 30%
64742-88-7	Solvent naphtha (petroleum), medium aliph.	13 - 30%
108-88-3	toluene	13 - 30%
67-64-1	acetone	13 - 30%
123-86-4	n-butyl acetate	7 - 10%

## 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.

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## (Contd. of page 4) · 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 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/m<sup>3</sup>, 150 ppm Long-term value: 375 mg/m<sup>3</sup>, 100 ppm TLV Long-term value: 75 mg/m<sup>3</sup>, 20 ppm BEI 67-64-1 acetone PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm REL Long-term value: 590 mg/m<sup>3</sup>, 250 ppm TLV Short-term value: 1187 mg/m<sup>3</sup>, 500 ppm Long-term value: 594 mg/m<sup>3</sup>, 250 ppm BEI 123-86-4 n-butyl acetate PEL Long-term value: 710 mg/m<sup>3</sup>, 150 ppm *REL* Short-term value: 950 mg/m<sup>3</sup>, 200 ppm Long-term value: 710 mg/m<sup>3</sup>, 150 ppm TLV Short-term value: 712 mg/m<sup>3</sup>, 150 ppm Long-term value: 238 mg/m<sup>3</sup>, 50 ppm · 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) • Additional information: The lists that were valid during the creation were used as basis. (Contd. on page 6)

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· 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 trough 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

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Aerosol	
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 °C	



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	(Contd. of page 6)
· Flash point:	-103 °C
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	265 °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:	0.6 Vol %
Upper:	13.0 Vol %
· Vapor pressure at 20 •C:	233 hPa
· Density at 20 •C:	0.72652 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wa	ter): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	96.6 %
VOC content:	79.7 %
	685.4 g/l / 5.72 lb/gl
Solids content:	3.4 %
• 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.

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· LD/LC50	city: values that	are relevant for classification:
64742-88-2	7 Solvent n	aphtha (petroleum), medium aliph.
Oral	LD50	>6500 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)
108-88-3 t	oluene	
Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)
<ul> <li>on the eye:</li> <li>Sensitization</li> <li>Additional</li> </ul>	: Irritating on: No sen toxicologi	o skin and mucous membranes. effect. sitizing effects known. <b>cal information:</b> e following dangers according to internally approved calculation methods for preparations.
· Carcinoge	ę	
• IARC (International Agency for Research on Cancer) 108-88-3 toluene		
108 88 2	onnene	3
108-88-3	1	vology Program)

## **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.
- · 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.

· UN-Number · DOT, ADR, IMDG, IATA	UN1950
· UN proper shipping name	
$\cdot DOT$	Aerosols, flammable
· ADR · IMDG	1950 Aerosols AEROSOLS
· IMDG · IATA	AEROSOLS AEROSOLS, flammable
• Transport hazard class(es)	
·DOT	
*	
I LAMANEL GA	
•	
· Class	2.1
· Label	2.1
· ADR	
2	
· Class	2 5F Gases
· Label	2.1
· IMDG, IATA	
<b>^</b>	
•	
· Class	2.1
· Label	2.1
· Packing group	Void

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	(Contd. of page
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Warning: Gases
· 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. For
	WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
• Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
• Transport/Additional information:	
· DOT	
Quantity limitations	On passenger aircraft/rail: 75 kg
	On cargo aircraft only: 150 kg
· ADR	
$\cdot$ Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· IMDG	
· Limited quantities (LQ)	11.
$\cdot$ Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· UN ''Model Regulation'':	UN 1950 AEROSOLS, 2.1

## **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 ingredient is listed.
 Section 313 (Specific toxic chemical listings): 108-88-3 toluene 78-93-3 butanone
 TSCA (Toxic Substances Control Act): 64742-88-7 Solvent naphtha (petroleum), medium aliph. 108-88-3 toluene 67-64-1 acetone
 123-86-4 n-butyl acetate

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/0-7.77	butanone	(Contd. of page
Proposition (		
-	nown to cause cancer:	
	ngredients is listed.	
	nown to cause reproductive toxicity for females:	
None of the i	ngredients is listed.	
Chemicals k	nown to cause reproductive toxicity for males:	
None of the i	ngredients is listed.	
Chemicals k	nown to cause developmental toxicity:	
108-88-3 tol	luene	
Cancerogeni	ty categories	
	onmental Protection Agency)	
108-88-3 tol		
67-64-1 ac	etone	
78-93-3 bu		
TIV (Throsh	nold Limit Value established by ACGIH)	
108-88-3 tol	· · · · · ·	A
67-64-1 ac		A
		21
$NHNH_{a}$	National Institute for Occupational Safety and Health)	
None of the i GHS label el	ngredients is listed. Iements The product is classified and labeled according to the Globally Harmoniz	ed System (GHS)
None of the i. GHS label el Hazard picto	ngredients is listed. The product is classified and labeled according to the Globally Harmoniz Segrams	ed System (GHS
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Safety Data Sheet acc. to OSHA HCS

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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.
P270	Do not eat, drink or smoke when using this product.
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+P33	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	<i>If eye irritation persists: Get medical advice/attention.</i>
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 05/31/2016 / 5

- 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*

(Contd. on page 13)

<sup>•</sup> 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)

USA

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## Trade name: 77723 XXX Plastic Adhesion Promoter

	(Contd. of page 12)
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 1: Specific target organ toxicity (repeated exposure) – Category 1	
Asp. Tox. 1: Aspiration hazard – Category 1	
* Data compared to the previous version altered.	
	USA