



Reviewed on 10/27/2015

1 Identification

- · Product identifier
- · Trade name: 77721,77724 XXX Adhesion Promoter
- · Article number: 77721, 77724
- · 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 Flame

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

GHS08 Health hazard

Repr. 2	H361 Suspected of damaging fertility or the unborn child.	
STOT RE 1	1372 Causes damage to the central nervous system through prolonged or repeated exposure.	
Asp. Tox. 1	1304 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). • *Hazard pictograms*



· Signal word Danger

• Hazard-determining components of labeling: toluene

(Contd. on page 2)

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Printing date 05/31/2016

SEM Reviewed on 10/27/2015

Trade name: 77721,77724 XXX Adhesion Promoter

Solvent nanhtha	(Contd. of page 1)
-	a (petroleum), medium aliph.
acetone	
n-butyl acetate	sate .
· Hazard stateme	
	ummable liquid and vapor.
H315 Causes sk	
	prious 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.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves / eye protection / face protection.
P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
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.
<i>P303</i> + <i>P361</i> + <i>P</i> .	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
D305 + D351 + D	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present
1 303+1 331+1	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.
	If exposed of concerned. Get medical advice/attention. If skin irritation occurs: Get medical advice/attention.
P332+P313 P337+P313	v v
P314	If eye irritation persists: Get medical advice/attention. Get medical advice/attention if you feel unwell.
P331	
	Do NOT induce vomiting.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Classification s	
· NFPA ratings (
(
	Iealth = 1
	iire = 3
	Peactivity = 0



(Contd. on page 3) USA Printing date 05/31/2016

Reviewed on 10/27/2015

Trade name: 77721,77724 XXX Adhesion Promoter

(Contd. of page 2)

· HMIS-ratings (scale 0 - 4)



• 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:

· Dangerous components.		
64742-88-7	Solvent naphtha (petroleum), medium aliph.	30 - 40%
108-88-3	toluene	30 - 40%
67-64-1	acetone	13 - 30%
123-86-4	n-butyl acetate	10 -13%

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.*

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. • For safety reasons unsuitable extinguishing agents: Water with full jet

· Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

(Contd. on page 4)

Printing date 05/31/2016

Reviewed on 10/27/2015

(Contd. of page 3)

Trade name: 77721,77724 XXX Adhesion Promoter

- · 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.
- \cdot 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. Open and handle receptacle with care. Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Keep respiratory protective device available.
- · 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.

- · 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 remaining constituent has no known exposure limits.

(Contd. on page 5)

[·] Control parameters

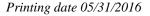
Printing date 05/31/2016

Reviewed on 10/27/2015

SEM

Trade name: 77721,77724 XXX Adhesion Promoter

108-8	8-3 toluene	(Contd. of pag
	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm	
	*10-min peak per 8-hr shift	
	Short-term value: 560 mg/m ³ , 150 ppm	
	Long-term value: 375 mg/m ³ , 100 ppm	
	Long-term value: 75 mg/m³, 20 ppm BEI	
-	-1 acetone	
	Long-term value: 2400 mg/m ³ , 1000 ppm	
	Long-term value: 590 mg/m³, 250 ppm	
	Short-term value: 1187 mg/m³, 500 ppm	
	Long-term value: 594 mg/m³, 250 ppm	
	BEI	
	6-4 n-butyl acetate	
	Long-term value: 710 mg/m³, 150 ppm	
	Short-term value: 950 mg/m ³ , 200 ppm	
	Long-term value: 710 mg/m³, 150 ppm	
	Short-term value: 712 mg/m ³ , 150 ppm	
4	Long-term value: 238 mg/m³, 50 ppm	
Ingre	dients with biological limit values:	
108-8	8-3 toluene	
BEI (0.02 mg/L	
	Medium: blood	
7	Fime: prior to last shift of workweek	
I	Parameter: Toluene	
).03 mg/L Medium: urine	
	Time: end of shift	
	Parameter: Toluene	
1		
0	0.3 mg/g creatinine	
Ι	Medium: urine	
	Fime: end of shift	
I	Parameter: o-Cresol with hydrolysis (background)	
67-64	-1 acetone	
BEI 5	50 mg/L	
	Medium: urine	
	Fime: end of shift	
	Parameter: Acetone (nonspecific)	
Additi	ional information: The lists that were valid during the creation were used as basis.	
Expos	sure controls	
	nal protective equipment:	
Gener	ral protective and hygienic measures:	
	away from foodstuffs, beverages and feed.	
Imme	diately remove all soiled and contaminated clothing.	
		(Contd. on pag



Reviewed on 10/27/2015

Trade name: 77721,77724 XXX Adhesion Promoter

(Contd. of page 5)

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:



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:	56 °C			
· Flash point:	-18 °C			
· Flammability (solid, gaseous):	Not applicable.			
· Ignition temperature:	265 °C			
· Decomposition temperature:	Not determined.			
· Auto igniting:	Product is not selfigniting.			
		(Contd. on page 7)		



Reviewed on 10/27/2015

Trade name: 77721,77724 XXX Adhesion Promoter

	(Contd. of pa	ıge 6
· 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:	$0.82 \ g/cm^3$	
· 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/wa	uter): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	95.4 %	
VOC content:	76.5 %	
	780.7 g/l / 6.51 lb/gl	
Solids content:	4.5 %	
• 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:

64742-88-7 Solvent naphtha (petroleum), medium aliph.

Oral	LD50	>6500 mg/kg (rat)
	LD50	>3000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)

 108-88-3 toluene

 Oral
 LD50
 5000 mg/kg (rat)

(Contd. on page 8)



Dermal

Reviewed on 10/27/2015

Trade name: 77721,77724 XXX Adhesion Promoter

(Contd. of page 7)

Inhalative LC50/4 h 5320 mg/l (mouse)

· Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

12124 mg/kg (rabbit)

• on the eye: Irritating effect.

LD50

• Sensitization: No sensitizing effects known.

 \cdot 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 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.
- · 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.

(Contd. on page 9)

3



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Reviewed on 10/27/2015

Trade name: 77721,77724 XXX Adhesion Promoter

(Contd. of page 8)

· UN-Number · DOT, ADR, IMDG, IATA	UN1263	
· UN proper shipping name · DOT · ADR · IMDG, IATA	Paint 1263 Paint, special provision 640D PAINT	
· Transport hazard class(es)		
· Class · Label	3 Flammable liquids 3	
ADR, IMDG, IATA	3 Flammable liquids	
· Label	3	
· Packing group · DOT, ADR, IMDG, IATA	II	
Environmental hazards: Marine pollutant:	No	
· Special precautions for user · EMS Number: · Stowage Category	Warning: Flammable liquids F-E, <u>S-E</u> B	
Transport in bulk according to Annex I. MARPOL73/78 and the IBC Code		
Transport/Additional information:		
DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L	
Remarks	OR Cargo arreragi oniy. 00 L ORM-D CFR49 173.150,156,306	
ADR • 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	



Printing date 05/31/2016

Reviewed on 10/27/2015

Trade name: 77721,77724 XXX Adhesion Promoter

	(Contd. of page 9
· 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

 \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 to	luene		
78-93-3 bı	itanone		
· TSCA (Toxi	c 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		
78-93-3	butanone		
· 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	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	Π	
67-64-1	acetone	Ι	
78-93-3	butanone	Ι	
· TLV (Threshold Limit Value established by ACGIH)			
108-88-3 toluene		14	

67-64-1 acetone

· 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). (Contd. on page 11)

Page 10/12

A4

Printing date 05/31/2016

Reviewed on 10/27/2015

SEM

· Hazard pictogra	(Contd. of pag
\wedge	
<u><<>><!--</u--></u>	
GHS02 GHS	507 GHS08
• Signal word Da	nger
	ining components of labeling:
toluene	
-	e (petroleum), medium aliph.
acetone n-butyl acetate	
· Hazard stateme	nts
	mmable liquid and vapor.
H315 Causes sk	
	rious eye irritation.
	of damaging fertility or the unborn child.
	e drowsiness or dizziness.
H372 Causes da	mage to the central nervous system through prolonged or repeated exposure.
H304 May be fa	tal if swallowed and enters airways.
· Precautionary s	tatements
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves / eye protection / face protection.
P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash thoroughly after handling.
P270 P271	Do not eat, drink or smoke when using this product.
P201	Use only outdoors or in a well-ventilated area. 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.
	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with we
1000 11001 110	shower.
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pre
	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.
	In case of fire: Use for extinction: CO2, powder or water spray.
P370+P378	
P3/0+P3/8 P362+P364 P405	Take off contaminated clothing and wash it before reuse. Store locked up.

USA

Page 11/12



SEM Reviewed on 10/27/2015

	(Contd. of pag
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/internati
	regulations.
Cnemical safety	assessment: A Chemical Safety Assessment has not been carried out.
Other inform	
	n is based on our present knowledge. However, this shall not constitute a guarantee for features and shall not establish a legally valid contractual relationship.
Department issi	uing SDS: Environment protection department.
Contact: Steve	Gaver (sgaver@semproducts.com)
	tion / last revision 05/31/2016 / 5
Abbreviations a	
	ternational concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concernin
	port of Dangerous Goods by Rail)
ICAO: International	Civil Aviation Organisation
	péen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Interna
	ous Goods by Road)
	I Maritime Code for Dangerous Goods
DOT: US Departme	5 1
	Air Transport Association Conference of Governmental Industrial Hygienists
	Inventory of Existing Commercial Chemical Substances
	List of Notified Chemical Substances
	tracts Service (division of the American Chemical Society)
	e Protection Association (USA)
HMIS: Hazardous M	Iaterials Identification System (USA)
	nic Compounds (USA, EU)
LC50: Lethal concer	
LD50: Lethal dose,	
	paccumulative and Toxic
	nt and very Bioaccumulative
OSHA: Occupational In	stitute for Occupational Safety
TLV: Threshold Lim	
PEL: Permissible E:	
REL: Recommended	
BEI: Biological Exp	A Contract of the second s
	nable liquids – Category 2
Skin Irrit. 2: Skin co	rrosion/irritation – Category 2
	s eye damage/eye irritation – Category 2A
	ve toxicity – Category 2
	target organ toxicity (single exposure) – Category 3
	c target organ toxicity (repeated exposure) – Category 1
	ion hazard – Category 1 ad to the previous version altered.
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Page 12/12