



Reviewed on 07/19/2017

1 Identification

- · Product identifier
- · Trade name: 39861, 39864 Plastic Adhesion Promoter
- · Article number: 39861, 39864
- · 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: 1-888-426-4851

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	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). • *Hazard pictograms*



· Signal word Danger

• Hazard-determining components of labeling: toluene

(Contd. on page 2)

e 2) - USA

Printing date 03/14/2018

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Trade name: 39861, 39864 Plastic Adhesion Promoter

H304 May be fatal if swallowPrecautionary statementsP201Obtain spP202Do not haP210Keep awaP240Ground/lP241Use explaP242Use onlyP243Take precP260Do not baP264Wash thatP270Do not eaP271Use onlyP280Wear proP301+P310If swallowP303+P361+P353If on skinshower.Specific tP304+P340IF INHAP305+P351+P338If in eyesP312Call a poP314Get mediP362+P364Take off eP337+P313If eye irruP370+P378In case oP403+P235Store in eP405Store loc	(Contd. of page 1
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P241Use $expla$ P242Use $only$ P243Take $pred$ P260Do not bleP264Wash thatP270Do not endP271Use $only$ P280Wear $prod$ P301+P310If swallowP301+P310If swallowP303+P361+P353If on skinshower.shower.P304+P340IF INHALP305+P351+P338If in eyesP312Call a poP314Get mediP332+P313If eye irrP370+P378In case oP403+P235Store in aP405Store locP501DisposeregulatioClassification system:NFPA ratings (scale 0 - 4)	ay from heat/sparks/open flames/hot surfaces No smoking.
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P242 Use only P243 Take prevent P260 Do not be P264 Wash the P270 Do not ea P271 Use only P280 Wear prevent P301+P310 If swallow P301+P310 If swallow P303+P361+P353 If on skin P304+P340 IF INHAL P305+P351+P338 If in eyes and easy and easy P308+P313 IF expose P304+P340 IF INHAL P305+P351+P338 If in eyes and easy P308+P313 P312 Call a po P314 Get medi P332+P313 If skin irr P370+P378 In case of P403+P233 Store in a P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4) A	osion-proof electrical/ventilating/lighting/equipment.
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P270 Do not ee P271 Use only P280 Wear propring P301+P310 If swallow P321 Specific t P331 Do NOT P303+P361+P353 If on skin P304+P340 IF INHA P305+P351+P338 If in eyes and easy P308+P313 P308+P313 IF expose P312 Call a po P314 Get medi P337+P313 If eye irr P370+P378 In case o P403+P233 Store in a P405 Store loc P501 Dispose regulatio C Classification system: NFPA ratings (scale 0 - 4)	proughly after handling.
P271 Use only P280 Wear proprint P301+P310 If swallow P321 Specific t P331 Do NOT P303+P361+P353 If on skin P304+P340 IF INHA P305+P351+P338 If in eyes and easy P308+P313 P302+P351 If expose P304+P340 If in eyes and easy P305+P351+P338 P305+P351+P338 If in eyes P308+P313 IF expose P314 Get medi P352+P353 If skin im P362+P364 Take off dettee P370+P378 In case of P403+P233 Store in dettee P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4) A	at, drink or smoke when using this product.
P280 Wear pro- If swallow P301+P310 If swallow P321 Specific t P321 Do NOT P331 Do NOT P303+P361+P353 If on skin shower. P304+P340 IF INHA. P305+P351+P338 If in eyes and easy P308+P313 IF expose P312 Call a poil P314 Get medil P362+P364 Take off of P332+P313 If eye irri P370+P378 In case of P403+P233 Store in a P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	outdoors or in a well-ventilated area.
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P321 Specific t P331 Do NOT P303+P361+P353 If on skin shower. P304+P340 IF INHA. P305+P351+P338 If in eyes and easy P308+P313 IF expose P312 Call a poil P314 Get medil P32+P313 If skin irr P370+P378 In case of P403+P233 Store in a P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	wed: Immediately call a poison center/doctor.
P331 Do NOT P303+P361+P353 If on skii shower. P304+P340 IF INHA. P305+P351+P338 If in eyes and easy P308+P313 IF expose P312 Call a po P314 Get medi P302+P313 If skin irr P362+P313 If skin irr P314 Get medi P302+P313 If skin irr P370+P378 In case o P403+P233 Store in a P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	treatment (see on this label).
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P305+P351+P338 If in eyes and easy P308+P313 IF expose P312 Call a po P314 Get medi P362+P364 Take off a P332+P313 If skin irr P370+P378 In case o P403+P233 Store in a P405 Store loc P501 Dispose regulatio Classification system:	LED: Remove person to fresh air and keep comfortable for breathing.
P308+P313 IF expose P312 Call a po P314 Get medi P362+P364 Take off d P332+P313 If skin irr P370+P378 In case o P403+P233 Store in d P405 Store loc P501 Dispose regulatio Classification system:	<i>to do. Continue rinsing.</i>
P312 Call a po P314 Get medi P362+P364 Take off d P332+P313 If skin in P370+P378 In case o P403+P233 Store in d P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	ed or concerned: Get medical advice/attention.
P314 Get medi P362+P364 Take off P332+P313 If skin in P337+P313 If eye irri P370+P378 In case of P403+P233 Store in a P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	ison center/doctor if you feel unwell.
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P332+P313 If skin irr P337+P313 If eye irr P370+P378 In case of P403+P233 Store in a P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	contaminated clothing and wash it before reuse.
P337+P313 If eye irr P370+P378 In case of P403+P233 Store in a P403+P235 Store in a P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	ritation occurs: Get medical advice/attention.
P370+P378 In case of P403+P233 Store in a P403+P235 Store in a P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	itation persists: Get medical advice/attention.
P403+P233 Store in a P403+P235 Store in a P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	f fire: Use for extinction: CO2, powder or water spray.
P403+P235 Store in a P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	a well-ventilated place. Keep container tightly closed.
P405 Store loc P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	a well-ventilated place. Keep cool.
P501 Dispose regulatio Classification system: NFPA ratings (scale 0 - 4)	
Classification system: NFPA ratings (scale 0 - 4)	of contents/container in accordance with local/regional/national/internation
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 3	
2 <i>Reactivity</i> = 0	

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· 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:			
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%	
78-93-3	butanone	1-1.5%	

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:

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 No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

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	precautions, protective equipment and emergency procedures	
	tective equipment. Keep unprotected persons away. nental precautions: Do not allow to enter sewers/ surface or ground water.	
	and material for containment and cleaning up:	
	ith liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	ontaminated material as waste according to item 13.	
	lequate ventilation.	
Reference	e to other sections	
	on 7 for information on safe handling.	
	on 8 for information on personal protection equipment.	
	on 13 for disposal information.	
	e Action Criteria for Chemicals	
PAC-1:		
108-88-3	toluene	67 ppm
67-64-1	acetone	200 ppn
123-86-4	n-butyl acetate	5 ppm
78-93-3	butanone	200 ppn
PAC-2:		
108-88-3	toluene	560 ppm
67-64-1	acetone	3200* ppn
123-86-4	n-butyl acetate	200 ppm
78-93-3	butanone	2700* ppn
PAC-3:		
108-88-3	toluene	3700* ppn
67-64-1	acetone	5700* ppn
123-86-4	n-butyl acetate	3000* ppn

7 Handling and storage

· Handling:

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- · Precautions for safe handling No special measures required.
- 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.

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USA

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• *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

Addit	ional information about design of technical systems: No further data; see item 7.
Comp The fe expos	rol parameters ponents with limit values that require monitoring at the workplace: ollowing constituents are the only constituents of the product which have a PEL, TLV or other recommendea ure limit. s time, the remaining constituent has no known exposure limits.
108-8	28-3 toluene
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift
	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm
TLV	Long-term value: 75 mg/m³, 20 ppm BEI
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
123-8	36-4 n-butyl acetate
PEL	Long-term value: 710 mg/m ³ , 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
78-9 3	2-3 butanone
PEL	Long-term value: 590 mg/m³, 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
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Ingr	edients with biological limit values:
-	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)
67-6	4-1 acetone
BEI	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
78-9	3-3 butanone
BEI	2 mg/L Medium: urine Time: end of shift Parameter: MEK
· Addi	tional information: The lists that were valid during the creation were used as basis.
 Person Geno Keep Immode Wasi Store Avoit Brea In carrespondence Prota Due chem 	osure controls onal protective equipment: eral protective and hygienic measures: o away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. h hands before breaks and at the end of work. e protective clothing separately. d contact with the eyes and skin. thing equipment: use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us iratory protective device that is independent of circulating air. ection of hands: to missing tests no recommendation to the glove material can be given for the product/ the preparation/ t nical mixture.
Internet	ction of the glove material on consideration of the penetration times, rates of diffusion and the degradation Protective gloves
The g	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. (Contd. on page



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· Material of gloves

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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

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:	55.8-56.6 °C
Flash point:	-18 °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 Vol %
Vapor pressure at 20 °C:	233 hPa
Density at 20 °C:	0.83182 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.

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		(Contd. of page
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	95.4 %	
VOC content:	76.40 %	
	794.6 g/l / 6.63 lb/gl	
Solids content:	4.6 %	
• 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.
- \cdot 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:

		t are relevant for classification:
64742-88-3	/ Solvent r	naphtha (petroleum), medium aliph.
Oral	LD50	>6,500 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rab)
Inhalative	LC50/4 h	>14 mg/l (rat)
108-88-3 t	oluene	
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)
• on the eye. • Sensitizati • Additional The product Irritant • Carcinoge	Irritating on: No sen toxicologi ct shows th nic catego	nsitizing effects known. i cal information: ne following dangers according to internally approved calculation methods for preparations ries
		Agency for Research on Cancer)
108-88-3	toluene	i i i i i i i i i i i i i i i i i i i



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- · 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.
- \cdot 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.

· UN-Number		
· DOT, ADR, IMDG, IATA	UN1263	
· UN proper shipping name		
$\cdot DOT$	Paint	
$\cdot ADR$	1263 Paint, special provision 640D	
· IMDG, IATA	PAINT	



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Transport hazard class(es)	
DOT	
RAMAGE 107	
Class	3 Flammable liquids
Label	3
ADR, IMDG, IATA	
Class	3 Flammable liquids
Label	3
Packing group DOT, ADR, IMDG, IATA	11
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
EMS Number: Stowage Category	F-E, <u>S-E</u> B
Transport in bulk according to Annex A MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
Remarks	ORM-D 49CFR 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
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

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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

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 ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-88-3 toluene

· Cancerogenity categories

· EPA (Environmental Protection Agency)

<i>108-88-3</i>	toluene	Π	
67-64-1	acetone	Ι	
78-93-3	butanone	Ι	
• TLV (Thr	eshold Limit Value established by ACGIH)		
108-88-3	toluene A	44	
67-64-1	acetone	44	
· 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). • *Hazard pictograms*



· Signal word Danger

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Hazard-determi	ning components of labeling:
toluene	
Solvent naphtha	(petroleum), medium aliph.
acetone	
n-butyl acetate	
Hazard stateme	nts
H225 Highly fla	mmable liquid and vapor.
H315 Causes sk	
H319 Causes se	rious eye irritation.
	of damaging fertility or the unborn child.
	e drowsiness or dizziness.
	mage to the central nervous system through prolonged or repeated exposure.
	tal if swallowed and enters airways.
Precautionary s	
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.
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.
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.
	353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wate
1 303 +1 301 +1 .	shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if prese
1 303+1 331+1.	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	
P362+P364	Get medical advice/attention if you feel unwell.
P332+P313	Take off contaminated clothing and wash it before reuse.
	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: CO2, powder or water spray.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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
CI I I I	regulations.
Chemical safety	assessment: A Chemical Safety Assessment has not been carried out.

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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 / 6

· 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. Liq. 2: Flammable liquids – Category 2 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 \cdot * Data compared to the previous version altered.