Printing date 03/14/2018 Reviewed on 06/28/2017

1 Identification

· Product identifier

· Trade name: 77763 XXX Universal Gun Cleaner

· Article number: 77763

· Application of the substance / the mixture Instrument cleaner

· 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 SE 1 H370 Causes damage to organs.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

H332 Harmful if inhaled. Acute Tox. 4 Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 2)



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Trade name: 77763 XXX Universal Gun Cleaner

(Contd. of page 1)

· Hazard pictograms









GHS04

GHS07

· **Signal word** Danger

· Hazard-determining components of labeling:

methanol acetone toluene xylene

· Hazard statements

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H332 Harmful if inhaled.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements

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.

P211 Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. P251

Do not breathe dust/fume/gas/mist/vapors/spray. P260

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.

Wear protective gloves/protective clothing/eye protection/face protection. P280

P302+P352 If on skin: Wash with plenty of water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

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.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P405 Store locked up.

Protect from sunlight. Store in a well-ventilated place. P410+P403

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. P410+P412

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

(Contd. on page 3)

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Trade name: 77763 XXX Universal Gun Cleaner

(Contd. of page 2)

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2 Fire = 4 Reactivity = 3

· 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

Danasassa	a a way a way ta a	
· Dangerous components:		
67-64-1	acetone	40-60%
68476-86-8	Petroleum gases, liquefied, sweetened	13-30%
1330-20-7	xylene	10-13%
67-56-1	methanol	10-13%
111-76-2	2-butoxyethanol	5-7%
64742-95-6	Solvent naphtha (petroleum), light arom.	1.5-5%
<i>78-93-3</i>	butanone	1.5-5%
108-88-3	toluene	1.5-5%
95-63-6	1,2,4-trimethylbenzene	1-1.5%

4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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.

(Contd. on page 4)



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(Contd. of page 3)

- · 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.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

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.

· Protective Action Criteria for Chemicals

67-64-1	acetone	200 ppn
1330-20-7	xylene	130 ppn
67-56-1	methanol	530 ppr
111-76-2	2-butoxyethanol	60 ppm
78-93-3	butanone	200 ppr
108-88-3	toluene	67 ppm
95-63-6	1,2,4-trimethylbenzene	140 ррг
108-67-8	mesitylene	140 ррг
98-82-8	cumene	50 ppm
PAC-2:		
67-64-1	acetone	3200* ppi
1330-20-7	xylene	920* ppm
67-56-1	methanol	2,100 ppn
111-76-2	2-butoxyethanol	120 ppm
78-93-3	butanone	2700* ppi
108-88-3	toluene	560 ppm
95-63-6	1,2,4-trimethylbenzene	360 ppm

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		(Contd. of page 4
108-67-8	mesitylene	360 ppm
98-82-8	cumene	300 ppm
· PAC-3:		
67-64-1	acetone	5700* ppm
1330-20-7	xylene	2500* ppm
67-56-1	methanol	7200* ppm
111-76-2	2-butoxyethanol	700 ppm
78-93-3	butanone	4000* ppm
108-88-3	toluene	3700* ppm
95-63-6	1,2,4-trimethylbenzene	480 ppm
108-67-8	mesitylene	480 ppm
98-82-8	cumene	730 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:

Do not spray on a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

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.
- · 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	67-64-1 acetone			
PEL	PEL Long-term value: 2400 mg/m³, 1000 ppm			
REL	Long-term value: 590 mg/m³, 250 ppm			
TLV	TLV Short-term value: 1187 mg/m³, 500 ppm			
	Long-term value: 594 mg/m³, 250 ppm			
	BEI			

(Contd. on page 6)

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1330-20-7 xylene	(Contd. of pa
PEL Long-term value: 435 mg/m³, 100 ppm	
REL Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm	
TLV Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI	
67-56-1 methanol	
PEL Long-term value: 260 mg/m³, 200 ppm	
REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
TLV Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI	
111-76-2 2-butoxyethanol	
PEL Long-term value: 240 mg/m³, 50 ppm Skin	
REL Long-term value: 24 mg/m³, 5 ppm Skin	
TLV Long-term value: 97 mg/m³, 20 ppm BEI	
78-93-3 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	
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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm	
TLV Long-term value: 75 mg/m³, 20 ppm BEI	
95-63-6 1,2,4-trimethylbenzene	
REL Long-term value: 125 mg/m³, 25 ppm	
TLV Long-term value: 123 mg/m³, 25 ppm	
Ingredients with biological limit values:	
67-64-1 acetone	
BEI 50 mg/L	
Medium: urine Time: end of shift	
Parameter: Acetone (nonspecific)	



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1330-20-7 xylene

BEI 1.5 g/g creatinine

Medium: urine Time: end of shift

Parameter: Methylhippuric acids

67-56-1 methanol

BEI 15 mg/L

Medium: urine Time: end of shift

Parameter: Methanol (background, nonspecific)

111-76-2 2-butoxyethanol

BEI 200 mg/g creatinine

Medium: urine Time: end of shift

Parameter: Butoxyacetic acid with hydrolysis

78-93-3 butanone

BEI 2 mg/L

Medium: urine Time: end of shift Parameter: MEK

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)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

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.

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· 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

9 Physical and chemical properties

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· General Information

· 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

· Flash point: -103 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 240 °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: 1.1 Vol %

 Upper: 44 Vol %

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Trade name: 77763 XXX Universal Gun Cleaner

		(Contd. of page 8
· Vapor pressure at 20 °C:	233 hPa	
Density at 20 °C:	$0.75264 \ g/cm^3$	
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/	water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	100.0 %	
VOC content:	59.67 %	
	729.3 g/l / 6.09 lb/gl	
Solids content:	0.0 %	
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/LC5	· LD/LC50 values that are relevant for classification:		
	1330-20-7 xylene		
Oral	LD50	4,300 mg/kg (rat)	
Dermal	<i>LD50</i>	2,000 mg/kg (rabbit)	
	67-56-1 methanol		
Oral	LD50	5,628 mg/kg (rat)	
Dermal	<i>LD50</i>	15,800 mg/kg (rabbit)	
95-63-6	95-63-6 1,2,4-trimethylbenzene		
Oral	LD50	5,000 mg/kg (rat)	
		. 00 .	

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.

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- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· Carcinogenic categories

	Carcinogenic categories					
	· IARC (International Agency for Research on Cancer)					
	1330-20-7	xylene	3			
	111-76-2	2-butoxyethanol	3			
	108-88-3	toluene	3			
	98-82-8	cumene	2B			
Ī	· NTP (National Toxicology Program)					
	98-82-8 cumene R					
	· 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.

USA

(Contd. on page 11)

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· UN-Number	
· DOT, ADR, IMDG, IATA	UN1950
· UN proper shipping name	
$\cdot DOT$	Aerosols, flammable
$\cdot ADR$	1950 Aerosols
· IMDG	AEROSOLS
·IATA	AEROSOLS, flammable
· Transport hazard class(es)	
· DOT	
- man as	
· Class	2.1
· Label	2.1
· ADR	
· Class	2 5F Gases
· Label	2.1
· Class	2.1
· Label	2.1
· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Gases
· EMS Number:	F - D , S - $\overset{\circ}{U}$
· Stowage Code	SWI Protected from sources of heat.
<u> </u>	SW22 For AEROSOLS with a maximum capacity of 1 litro
	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 litro
Seg. egunon cone	Segregation as for class 9. Stow "separated from" class 1 except for
	division 1.4. For AEROSOLS with a capacity above 1 litro
	Segregation as for the appropriate subdivision of class 2. For
	WASTE AEROSOLS: Segregation as for the appropriate subdivision

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68476-86-8 Petroleum gases, liquefied, sweetened

	(Contd. of p	age
	of class 2.	
· Transport in bulk according to Annex I	II of	
MARPOL73/78 and the IBC Code	Not applicable.	
· Transport/Additional information:		
$\cdot DOT$		
· Quantity limitations	On passenger aircraft/rail: 75 kg	
	On cargo aircraft only: 150 kg	
$\cdot ADR$		
· Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	
· IMDG		
· Limited quantities (LQ)	IL	
· Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1	

15 Regulatory information	
· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara	
· Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	

· Section 31.	· Section 313 (Specific toxic chemical listings):		
1330-20-7	xylene		
67-56-1	methanol		
111-76-2	2-butoxyethanol		
78-93-3	butanone		
108-88-3	toluene		
95-63-6	1,2,4-trimethylbenzene		
98-82-8	cumene		
· TSCA (Tox	TSCA (Toxic Substances Control Act):		
67-64-1	acetone		
1330-20-7	xylene		
67-56-1	methanol		
111-76-2	2-butoxyethanol		
78-93-3	butanone		
108-88-3	toluene		
95-63-6	1,2,4-trimethylbenzene		
108-67-8	mesitylene		
98-82-8	cumene		
· TSCA new	· TSCA new (21st Century Act) (Substances not listed)		

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| Contd. of page 12)
| 64742-95-6 | Solvent naphtha (petroleum), light arom.
| Proposition 65 |
| Chemicals known to cause cancer: |
1330-20-7	xylene
95-63-6	1,2,4-trimethylbenzene
98-82-8	cumene
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:

67-56-1 methanol 108-88-3 toluene

· Cancerogenity categories

· EPA (Environmental Protection Agency)			
67-64-1	acetone	I	
1330-20-7	xylene	Ι	
111-76-2	2-butoxyethanol	NL	
78-93-3	butanone	I	
108-88-3	toluene	II	
95-63-6	1,2,4-trimethylbenzene	II	
108-67-8	mesitylene	II	
98-82-8	cumene	D, CBD	

· TLV (Threshold Limit Value established by ACGIH)				
67-64-1	acetone	A4		
1330-20-7	xylene	A4		
111-76-2	2-butoxyethanol	<i>A3</i>		
108-88-3	toluene	<i>A4</i>		

· NIOSH-Ca (National Institute for Occupational Safety and Health) 67-56-1 methanol

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms









GHS02

GHS04

GHS07 GHS08

04 GDS07 C

- · Signal word Danger
- · Hazard-determining components of labeling:

methanol acetone toluene xylene

(Contd. on page 14)

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(Contd. of page 13)

· Hazard statements

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements

•	· Precautionary statements		
	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.	
	P211	Do not spray on an open flame or other ignition source.	
	P251	Pressurized container: Do not pierce or burn, even after use.	
	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.	
	P302+P352	If on skin: Wash with plenty of water.	
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
	P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present	
		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.	
	P321	Specific treatment (see on this label).	
	P314	Get medical advice/attention if you feel unwell.	
	P362+P364	Take off contaminated clothing and wash it before reuse.	
	P332+P313	If skin irritation occurs: Get medical advice/attention.	
	P337+P313	If eye irritation persists: Get medical advice/attention.	
	P405	Store locked up.	
	P410+P403	Protect from sunlight. Store in a well-ventilated place.	

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

P410+P412

P501

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.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Dispose of contents/container in accordance with local/regional/national/international

- · Department issuing SDS: Environment protection department.
- · Contact: Rita Joiner (rjoiner@semproducts.com)

regulations.

- · Date of preparation / last revision 03/14/2018 / 11
- · 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

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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. Aerosol 1: Aerosols - Category 1

Press. Gas: Gases under pressure - Compressed gas

Acute Tox. 4: Acute toxicity – Category 4
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 1: Specific target organ toxicity (single exposure) – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

* Data compared to the previous version altered.

IIS A