

1 Identification

- **Product identifier**
- **Trade name:** HR034-LV Hot Rod Smoke
- **Article number:** HR034-LV
- **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.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

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

STOT SE 3 H335-H336 May cause respiratory irritation. 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**



GHS02 GHS07

- **Signal word** Danger

- **Hazard-determining components of labeling:**

4-chloro-alpha,alpha,alpha-trifluorotoluene
acetone

n-butyl acetate

precipitated Silica (Silica-Amorphous)

bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate

Methyl (1,2,2,6,6,- pentamethyl-4-piperidinyl) sebacate

(Contd. on page 2)

USA

Trade name: HR034-LV Hot Rod Smoke

(Contd. of page 1)

· **Hazard statements**

- H225 *Highly flammable liquid and vapor.*
- H315 *Causes skin irritation.*
- H319 *Causes serious eye irritation.*
- H317 *May cause an allergic skin reaction.*
- H335-H336 *May cause respiratory irritation. May cause drowsiness or dizziness.*

· **Precautionary statements**

- 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.*
- P261 *Avoid breathing dust/fume/gas/mist/vapors/spray*
- P264 *Wash thoroughly after handling.*
- P271 *Use only outdoors or in a well-ventilated area.*
- P272 *Contaminated work clothing must not be allowed out of the workplace.*
- P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
- P303+P361+P353 *If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*
- 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.*
- P312 *Call a POISON CENTER/doctor if you feel unwell.*
- P321 *Specific treatment (see on this label).*
- P333+P313 *If skin irritation or rash occurs: Get medical advice/attention.*
- P337+P313 *If eye irritation persists: Get medical advice/attention.*
- P362+P364 *Take off contaminated clothing and wash it before reuse.*
- P363 *Wash contaminated clothing before reuse.*
- 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 regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.



Trade name: HR034-LV Hot Rod Smoke

(Contd. of page 2)

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:**

Mixture: consisting of the following components.

Weight percentages

· **Dangerous components:**

98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	13 - 30%
67-64-1	acetone	13 - 30%
123-86-4	n-butyl acetate	7 - 10%
112926-00-8	precipitated Silica (Silica-Amorphous)	1.5 - 5%
112-07-2	2-butoxyethyl acetate	1.5 - 5%
7429-90-5	aluminium	1.5 - 5%
110-43-0	heptan-2-one	1.5 - 5%
108-83-8	2,6-dimethylheptan-4-one	1.5 - 5%
1330-20-7	xylene	1.5 - 5%
19549-80-5	4,6-dimethylheptan-2-one	1-1.5%
41556-26-7	bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate	≤1%
82919-37-7	Methyl (1,2,2,6,6,- pentamethyl-4-piperidinyl) sebacate	≤1%

4 First-aid measures

· **Description of first aid measures**

· **After inhalation:**

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

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **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.

Trade name: **HR034-LV Hot Rod Smoke**

(Contd. of page 3)

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:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

· PAC-1:

67-64-1	acetone	200 ppm
123-86-4	n-butyl acetate	5 ppm
112926-00-8	precipitated Silica (Silica-Amorphous)	18 mg/m ³
112-07-2	2-butoxyethyl acetate	15 ppm
110-43-0	heptan-2-one	150 ppm
108-83-8	2,6-dimethylheptan-4-one	75 ppm
1330-20-7	xylene	130 ppm
1333-86-4	Carbon black	9 mg/m ³
9002-88-4	Polyethylene low density	16 mg/m ³
25322-68-3	Polyethylene glycol	30 mg/m ³
78-83-1	butanol	150 ppm
100-41-4	ethylbenzene	33 ppm

· PAC-2:

67-64-1	acetone	3200* ppm
123-86-4	n-butyl acetate	200 ppm
112926-00-8	precipitated Silica (Silica-Amorphous)	200 mg/m ³
112-07-2	2-butoxyethyl acetate	35 ppm
110-43-0	heptan-2-one	670 ppm
108-83-8	2,6-dimethylheptan-4-one	330 ppm
1330-20-7	xylene	920* ppm
1333-86-4	Carbon black	99 mg/m ³
9002-88-4	Polyethylene low density	170 mg/m ³
25322-68-3	Polyethylene glycol	1,300 mg/m ³
78-83-1	butanol	1,300 ppm
100-41-4	ethylbenzene	1100* ppm

· PAC-3:

67-64-1	acetone	5700* ppm
123-86-4	n-butyl acetate	3000* ppm
112926-00-8	precipitated Silica (Silica-Amorphous)	1,200 mg/m ³
112-07-2	2-butoxyethyl acetate	210 ppm

(Contd. on page 5)



Printing date 06/28/2017

Reviewed on 06/21/2017

Trade name: HR034-LV Hot Rod Smoke

(Contd. of page 4)

110-43-0	heptan-2-one	4000* ppm
108-83-8	2,6-dimethylheptan-4-one	2000* ppm
1330-20-7	xylene	2500* ppm
1333-86-4	Carbon black	590 mg/m ³
9002-88-4	Polyethylene low density	1,000 mg/m ³
25322-68-3	Polyethylene glycol	7,700 mg/m ³
78-83-1	butanol	8000* ppm
100-41-4	ethylbenzene	1800* ppm

7 Handling and storage

- **Handling:**
- **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.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

67-64-1 acetone

PEL	Long-term value: 2400 mg/m ³ , 1000 ppm
REL	Long-term value: 590 mg/m ³ , 250 ppm
TLV	Short-term value: 1187 mg/m ³ , 500 ppm
	Long-term value: 594 mg/m ³ , 250 ppm
BEI	

123-86-4 n-butyl acetate

PEL	Long-term value: 710 mg/m ³ , 150 ppm
REL	Long-term value: 950 mg/m ³ , 200 ppm
TLV	Short-term value: 712 mg/m ³ , 150 ppm
	Long-term value: 238 mg/m ³ , 50 ppm

(Contd. on page 6)


Trade name: HR034-LV Hot Rod Smoke

(Contd. of page 5)

112926-00-8 precipitated Silica (Silica-Amorphous)

 PEL 20mppcf or 80mg/m³ /%SiO₂

 REL Long-term value: 6 mg/m³
 See Pocket Guide App. C

TLV TLV withdrawn

112-07-2 2-butoxyethyl acetate

 REL Long-term value: 33 mg/m³, 5 ppm

 TLV Long-term value: 130 mg/m³, 20 ppm

110-43-0 heptan-2-one

 PEL Long-term value: 465 mg/m³, 100 ppm

 REL Long-term value: 465 mg/m³, 100 ppm

 TLV Long-term value: 233 mg/m³, 50 ppm

108-83-8 2,6-dimethylheptan-4-one

 PEL Long-term value: 290 mg/m³, 50 ppm

 REL Long-term value: 150 mg/m³, 25 ppm

 TLV Long-term value: 145 mg/m³, 25 ppm

1330-20-7 xylene

 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

· Ingredients with biological limit values:
67-64-1 acetone

BEI 50 mg/L

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

1330-20-7 xylene

BEI 1.5 g/g creatinine

Medium: urine

Time: end of shift

Parameter: Methylhippuric acids

 · **Additional information:** The lists that were valid during the creation were used as basis.

 · **Exposure controls**

 · **Personal protective equipment:**

 · **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

 · **Breathing equipment:** Not required.

 · **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

(Contd. on page 7)

Trade name: HR034-LV Hot Rod Smoke

(Contd. of page 6)

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 through 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:	55 °C

· **Flash point:** -18 °C

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 370 °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:	2.6 Vol %
Upper:	13.0 Vol %

· **Vapor pressure at 20 °C:** 233 hPa

· **Density at 20 °C:** 0.97 g/cm³

· **Relative density** Not determined.

(Contd. on page 8)



Printing date 06/28/2017

Reviewed on 06/21/2017

Trade name: HR034-LV Hot Rod Smoke

(Contd. of page 7)

- | | |
|---|--|
| · Vapor density | Not determined. |
| · Evaporation rate | Not determined. |
| · 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: | 60.5 % |
| VOC content: | 22.7 % |
| | 334.7 g/l / 2.79 lb/gl |
| · Solids content: | 45.5 % |
| · 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:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **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)

1330-20-7	xylene	3
1333-86-4	Carbon black	2B
9002-88-4	Polyethylene low density	3
100-41-4	ethylbenzene	2B

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 9)

Trade name: **HR034-LV Hot Rod Smoke**

(Contd. of page 8)

· **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 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **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.

14 Transport information


- | | |
|---|------------------------------------|
| · UN-Number | |
| · DOT, ADR, IMDG, IATA | UN1263 |
| · UN proper shipping name | |
| · DOT | Paint |
| · ADR | 1263 Paint, special provision 640D |
| · IMDG, IATA | PAINT |
| · Transport hazard class(es) | |
| · DOT | |
|  | |
| · Class | 3 Flammable liquids |

(Contd. on page 10)



Trade name: HR034-LV Hot Rod Smoke

(Contd. of page 9)

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

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 313 (Specific toxic chemical listings):

	Acrylic Resin
112-07-2	2-butoxyethyl acetate
7429-90-5	aluminium
1330-20-7	xylene

(Contd. on page 11)



Printing date 06/28/2017

Reviewed on 06/21/2017

Trade name: HR034-LV Hot Rod Smoke

(Contd. of page 10)

100-41-4	ethylbenzene
· TSCA (Toxic Substances Control Act):	
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene
67-64-1	acetone
123-86-4	n-butyl acetate
9004-36-8	Cellulose Acetate Butyrate
112-07-2	2-butoxyethyl acetate
7429-90-5	aluminium
110-43-0	heptan-2-one
108-83-8	2,6-dimethylheptan-4-one
1330-20-7	xylene
19549-80-5	4,6-dimethylheptan-2-one
41556-26-7	bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate
1333-86-4	Carbon black
9002-88-4	Polyethylene low density
104810-48-2	poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-
104810-47-1	poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-
82919-37-7	Methyl (1,2,2,6,6,- pentamethyl-4-piperidinyl) sebacate
9038-95-3	OXIRANE,ME, POLYMER
25322-68-3	Polyethylene glycol
78-83-1	butanol
100-41-4	ethylbenzene
106-79-6	Dimethyl sebacate(Impurity)
2403-89-6	4-Piperidinol, 1,2,2,6,6 pentamethyl- (Impurity)

· Proposition 65

· Chemicals known to cause cancer:

1330-20-7	xylene
1333-86-4	Carbon black
100-41-4	ethylbenzene

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

67-64-1	acetone	I
1330-20-7	xylene	I

(Contd. on page 12)

Trade name: HR034-LV Hot Rod Smoke

(Contd. of page 11)

100-41-4	ethylbenzene	D
· TLV (Threshold Limit Value established by ACGIH)		
67-64-1	acetone	A4
112-07-2	2-butoxyethyl acetate	A3
7429-90-5	aluminium	A4
1330-20-7	xylene	A4
1333-86-4	Carbon black	A4
100-41-4	ethylbenzene	A3

· NIOSH-Ca (National Institute for Occupational Safety and Health)

1333-86-4 Carbon black

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

· Hazard pictograms



GHS02 GHS07

· Signal word *Danger*

· Hazard-determining components of labeling:

4-chloro-alpha,alpha,alpha-trifluorotoluene
acetone
n-butyl acetate
precipitated Silica (Silica-Amorphous)
bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate
Methyl (1,2,2,6,6,- pentamethyl-4-piperidinyl) sebacate

· Hazard statements

H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

· Precautionary statements

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.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P312 Call a POISON CENTER/doctor if you feel unwell.

(Contd. on page 13)



Printing date 06/28/2017

Reviewed on 06/21/2017

Trade name: HR034-LV Hot Rod Smoke

(Contd. of page 12)

- P321 *Specific treatment (see on this label).*
- P333+P313 *If skin irritation or rash occurs: Get medical advice/attention.*
- P337+P313 *If eye irritation persists: Get medical advice/attention.*
- P362+P364 *Take off contaminated clothing and wash it before reuse.*
- P363 *Wash contaminated clothing before reuse.*
- 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 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** 06/28/2017 / 7

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

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

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· *** Data compared to the previous version altered.**