



1 Identification

- **Product identifier**
- **Trade name:** 45514, 45518 Rust Trap Silver
- **Article number:** 45514, 45518
- **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

2 Hazard identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids - Category 3

H226

Flammable liquid and vapour.



GHS08 Health hazard

Respiratory Sensitizer - Category 1

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ Cell Mutagenicity - Category 1B

H340

May cause genetic defects.

Carcinogenicity - Category 1B

H350

May cause cancer.

Specific Target Organ Toxicity - Repeated Exposure - Category 1

H372-H373

Causes damage to organs through prolonged or repeated exposure. May cause damage to the central nervous system through prolonged or repeated exposure.

Aspiration Hazard - Category 1

H304

May be fatal if swallowed and enters airways.



GHS07

Skin Irritation - Category 2

H315

Causes skin irritation.

Eye Irritation - Category 2A

H319

Causes serious eye irritation.

Skin Sensitizer - Category 1

H317

May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure - Category 3

H335

May cause respiratory irritation.

- **Label elements**

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

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· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word *Danger*

· Hazard-determining components of labeling:

POLYMERIC MDI

Solvent naphtha (petroleum), light arom.

Aromatic Polyisocyanate

4,4'-methylenediphenyl diisocyanate

diphenylmethanediisocyanate, isomers and homologues

methylenediphenyl diisocyanate

· Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H350 May cause cancer.

H335 May cause respiratory irritation.

H372-H373 Causes damage to organs through prolonged or repeated exposure. May cause damage to the central nervous system through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

· 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take actions to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/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.

P272 Contaminated work clothing should not be allowed out of the workplace.

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

P284 [In case of inadequate ventilation] wear respiratory protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER/doctor if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

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- P321 Specific treatment (see on this label).
 P331 Do NOT induce vomiting.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P362+P364 Take off contaminated clothing and wash it 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)**



3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

· **Description:**

Mixture: consisting of the following components.

Weight percentages

· **Dangerous components:**

53862-89-8	POLYMERIC MDI	15-40% w/w
64742-95-6	Solvent naphtha (petroleum), light arom.	10-30% w/w
127821-00-5	Aromatic Polyisocyanate	5-10% w/w
101-68-8	4,4'-methylenediphenyl diisocyanate	3-7% w/w
7429-90-5	aluminium	3-7% w/w
95-63-6	1,2,4-trimethylbenzene	3-7% w/w
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	1-5% w/w
108-67-8	mesitylene	1-5% w/w
165101-57-5	Mono-Oxazolidine	1-5% w/w
64742-95-6	Solvent naphtha (petroleum), light arom.	0.5-1.5% w/w
8052-41-3	Stoddard solvent	0.5-1.5% w/w
26447-40-5	methylenediphenyl diisocyanate	0.5-1.5% w/w
98-82-8	cumene	≤ 1% w/w

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64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy

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≤ 1% w/w

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 Firefighting 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.

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).
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.

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- **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:** No special requirements.
- **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:

101-68-8 4,4'-methylenediphenyl diisocyanate

EL Long-term value: 0.005 ppm
Ceiling limit value: 0.01 ppm
Skin; S

EV Long-term value: 0.005 ppm
Ceiling limit value: 0.02 ppm

8052-41-3 Stoddard solvent

EL Short-term value: 580 mg/m³
Long-term value: 290 mg/m³

98-82-8 cumene

EL Short-term value: 75 ppm
Long-term value: 25 ppm
IARC 2B

EV Long-term value: 245 mg/m³, 50 ppm
Skin

- **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.
- **Protection of hands:**



Protective gloves

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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:	162 °C

· **Flash point:** 44 °C

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

· **Ignition temperature:** 400 °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:	0.7 Vol %
Upper:	7.5 Vol %

· **Vapor pressure at 20 °C:** 5 hPa

· **Density at 20 °C:** 1.06075 g/cm³

· **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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- | | |
|---|------------------------|
| · Partition coefficient (n-octanol/water): Not determined. | |
| · Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |
| · Solvent content: | |
| Organic solvents: | 31.2 % |
| VOC content: | 31.2 % |
| | 331.4 g/l / 2.77 lb/gl |
| · Solids content: | 68.9 % |
| · 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:**

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
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Dermal	LD50	>3400 mg/kg (rab)
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Inhalative	LC50/4 h	>10.2 mg/l (rat)
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101-68-8 4,4'-methylenediphenyl diisocyanate

Oral	LD50	2200 mg/kg (mouse)
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95-63-6 1,2,4-trimethylbenzene

Oral	LD50	5000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:**
- Sensitization possible through inhalation.
- Sensitization possible through skin contact.
- **Additional toxicological information:**
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Harmful
- Irritant
- The product can cause inheritable damage.

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· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

101-68-8	4,4'-methylenediphenyl diisocyanate	3
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	3
1330-20-7	xylene	3
98-82-8	cumene	2B

· **NTP (National Toxicology Program)**

98-82-8	cumene	R
584-84-9	4-methyl-m-phenylene diisocyanate	R

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:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely 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.

14 Transport information

· **UN-Number**

· **DOT, TDG, IMDG, IATA**

UN1993

· **UN proper shipping name**

· **DOT**

Flammable liquids, n.o.s. (Solvent naphtha (petroleum), light arom., aluminium)

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· **TDG** 1993 Flammable liquids, n.o.s. (Solvent naphtha (petroleum), light arom., aluminium), special provision 640E

· **IMDG** FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light arom., aluminium, 1,2,4-trimethylbenzene, 1,3,5-TRIMETHYLBENZENE)

· **IATA** FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light arom., aluminium)

· **Transport hazard class(es)**· **DOT**

· **Class** 3 Flammable liquids

· **Label** 3

· **TDG, IMDG**



· **Class** 3 Flammable liquids

· **Label** 3

· **IATA**

· **Class** 3 Flammable liquids

· **Label** 3

· **Packing group**· **DOT, TDG, IMDG, IATA** III

· **Environmental hazards:** Product contains environmentally hazardous substances: Aromatic Polyisocyanate

· **Marine pollutant:** Yes

Symbol (fish and tree)

· **Special marking (TDG):** Symbol (fish and tree)

· **Special precautions for user** Warning: Flammable liquids

· **EMS Number:** F-E,S-E

· **Stowage Category** A

· **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: 60 L
On cargo aircraft only: 220 L

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· TDG	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S., SPECIAL PROVISION 640E (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM., ALUMINIUM), 3, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· **Section 355 (extremely hazardous substances):**

584-84-9	4-methyl-m-phenylene diisocyanate
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· **Section 313 (Specific toxic chemical listings):**

101-68-8	4,4'-methylenediphenyl diisocyanate
7429-90-5	aluminium
95-63-6	1,2,4-trimethylbenzene
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues
26447-40-5	methylenediphenyl diisocyanate
1330-20-7	xylene
98-82-8	cumene
584-84-9	4-methyl-m-phenylene diisocyanate

· **TSCA (Toxic Substances Control Act):**

53862-89-8	POLYMERIC MDI
64742-95-6	Solvent naphtha (petroleum), light arom.
9017-27-0	Alpha-methyl styrene/vinyl toluene copolymer
127821-00-5	Aromatic Polyisocyanate
101-68-8	4,4'-methylenediphenyl diisocyanate
7429-90-5	aluminium
95-63-6	1,2,4-trimethylbenzene
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues
108-67-8	mesitylene
165101-57-5	Mono-Oxazolidine
26447-40-5	methylenediphenyl diisocyanate
108-83-8	2,6-dimethylheptan-4-one
1330-20-7	xylene

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98-82-8	cumene
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy
584-84-9	4-methyl-m-phenylene diisocyanate

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

53862-89-8	POLYMERIC MDI
64742-95-6	Solvent naphtha (petroleum), light arom.
9017-27-0	Alpha-methyl styrene/vinyl toluene copolymer
127821-00-5	Aromatic Polyisocyanate
101-68-8	4,4'-methylenediphenyl diisocyanate
7429-90-5	aluminium
95-63-6	1,2,4-trimethylbenzene
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues
108-67-8	mesitylene
8052-41-3	Stoddard solvent
26447-40-5	methylenediphenyl diisocyanate
108-83-8	2,6-dimethylheptan-4-one
1330-20-7	xylene
98-82-8	cumene
64742-82-1	Naphtha (petroleum), hydrodesulfurized heavy
584-84-9	4-methyl-m-phenylene diisocyanate

· **Canadian Ingredient Disclosure list (limit 0.1%)**

101-68-8	4,4'-methylenediphenyl diisocyanate
95-63-6	1,2,4-trimethylbenzene
108-67-8	mesitylene

· **Canadian Ingredient Disclosure list (limit 1%)**

7429-90-5	aluminium
8052-41-3	Stoddard solvent

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

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

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

POLYMERIC MDI

Solvent naphtha (petroleum), light arom.

Aromatic Polyisocyanate

4,4'-methylenediphenyl diisocyanate

diphenylmethanediisocyanate, isomeres and homologues

methylenediphenyl diisocyanate

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· Hazard statements

- H226 *Flammable liquid and vapour.*
- H315 *Causes skin irritation.*
- H319 *Causes serious eye irritation.*
- H334 *May cause allergy or asthma symptoms or breathing difficulties if inhaled.*
- H317 *May cause an allergic skin reaction.*
- H340 *May cause genetic defects.*
- H350 *May cause cancer.*
- H335 *May cause respiratory irritation.*
- H372-H373 *Causes damage to organs through prolonged or repeated exposure. May cause damage to the central nervous system through prolonged or repeated exposure.*
- H304 *May be fatal if swallowed and enters airways.*

· 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
- P240 *Ground and bond container and receiving equipment.*
- P241 *Use explosion-proof [electrical/ventilating/lighting] equipment.*
- P242 *Use non-sparking tools.*
- P243 *Take actions to prevent static discharges.*
- P260 *Do not breathe dust/fume/gas/mist/vapours/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.*
- P272 *Contaminated work clothing should not be allowed out of the workplace.*
- P280 *Wear protective gloves/protective clothing/eye protection/face protection.*
- P284 *[In case of inadequate ventilation] wear respiratory protection.*
- P301+P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
- P303+P361+P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.*
- P308+P313 *IF exposed or concerned: Get medical advice/attention.*
- P312 *Call a POISON CENTER/doctor if you feel unwell.*
- P314 *Get medical advice/attention if you feel unwell.*
- P321 *Specific treatment (see on this label).*
- P331 *Do NOT induce vomiting.*
- P333+P313 *If skin irritation or rash occurs: Get medical advice/attention.*
- P337+P313 *If eye irritation persists: Get medical advice/attention.*
- P342+P311 *If experiencing respiratory symptoms: Call a POISON CENTER/doctor.*
- P362+P364 *Take off contaminated clothing and wash it 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.*

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- **National regulations:**
- **Additional classification according to Decree on Hazardous Materials:**
Carcinogenic hazardous material group III (dangerous).
- **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.
Exceptions can be made by the authorities in certain cases.
- **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** 06/20/2017 / 7
- **Abbreviations and acronyms:**
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 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
- *** Data compared to the previous version altered.**

CA