

## 1 Identification

- **Product identifier**
- **Trade name:** 40523 Low VOC Rubberized Undercoating
- **Article number:** 40523
- **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 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 RE 2

H373

May cause damage to organs 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

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).

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## · Hazard pictograms



GHS02 GHS04 GHS07 GHS08

· Signal word *Danger*

## · Hazard-determining components of labeling:

toluene

methyl acetate

4-chloro-alpha,alpha,alpha-trifluorotoluene

acetone

## · Hazard statements

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H373 May cause damage to organs 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/sparks/open flames/hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

P264 Wash thoroughly after handling.

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.

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.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see on this label).

P331 Do NOT induce vomiting.

P332+P313 If skin irritation 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.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

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

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

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· **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.\* **3 Composition/information on ingredients**· **Chemical characterization: Mixtures**· **Description:**

Mixture: consisting of the following components.

Weight percentages

· **Dangerous components:**

|            |   |          |
|------------|---|----------|
| 68476-86-8 | Petroleum gases, liquefied, sweetened       | 13 - 30% |
| 108-88-3   | toluene                                     | 13 - 30% |
| 79-20-9    | methyl acetate                              | 10 - 13% |
| 98-56-6    | 4-chloro-alpha,alpha,alpha-trifluorotoluene | 7 - 10%  |
| 67-64-1    | acetone                                     | 7 - 10%  |
| 7727-43-7  | barium sulphate, natural                    | 7 - 10%  |
| 14807-96-6 | Talc  | 5 - 7%   |
| 68911-87-5 | montmorillonite clay complex                | 1.5 - 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.

USA

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## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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:** 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:**  
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**

### · PAC-1:

|             |                          |                      |
|-------------|--------------------------|----------------------|
| 108-88-3    | toluene                  | 67 ppm               |
| 79-20-9     | methyl acetate           | 250 ppm              |
| 67-64-1     | acetone                  | 200 ppm              |
| 7727-43-7   | barium sulphate, natural | 15 mg/m <sup>3</sup> |
| 112945-52-5 | SILICA                   | 18 mg/m <sup>3</sup> |
| 1333-86-4   | Carbon black             | 9 mg/m <sup>3</sup>  |
| 67-56-1     | methanol                 | 530 ppm              |

### · PAC-2:

|             |                          |                       |
|-------------|--------------------------|-----------------------|
| 108-88-3    | toluene                  | 560 ppm               |
| 79-20-9     | methyl acetate           | 1,700 ppm             |
| 67-64-1     | acetone                  | 3200* ppm             |
| 7727-43-7   | barium sulphate, natural | 170 mg/m <sup>3</sup> |
| 112945-52-5 | SILICA                   | 100 mg/m <sup>3</sup> |
| 1333-86-4   | Carbon black             | 99 mg/m <sup>3</sup>  |
| 67-56-1     | methanol                 | 2,100 ppm             |

### · PAC-3:

|             |                          |                       |
|-------------|--------------------------|-----------------------|
| 108-88-3    | toluene                  | 3700* ppm             |
| 79-20-9     | methyl acetate           | 10000* ppm            |
| 67-64-1     | acetone                  | 5700* ppm             |
| 7727-43-7   | barium sulphate, natural | 990 mg/m <sup>3</sup> |
| 112945-52-5 | SILICA                   | 630 mg/m <sup>3</sup> |
| 1333-86-4   | Carbon black             | 590 mg/m <sup>3</sup> |

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67-56-1 methanol

7200\* ppm

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **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.

### 108-88-3 toluene

|     |   |
|-----|---|
| PEL | Long-term value: 200 ppm<br>Ceiling limit value: 300; 500* ppm<br>*10-min peak per 8-hr shift         |
| REL | Short-term value: 560 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 375 mg/m <sup>3</sup> , 100 ppm |
| TLV | Long-term value: 75 mg/m <sup>3</sup> , 20 ppm<br>BEI   |

### 79-20-9 methyl acetate

|     |   |
|-----|---|
| PEL | Long-term value: 610 mg/m <sup>3</sup> , 200 ppm  |
| REL | Short-term value: 760 mg/m <sup>3</sup> , 250 ppm<br>Long-term value: 610 mg/m <sup>3</sup> , 200 ppm |
| TLV | Short-term value: 757 mg/m <sup>3</sup> , 250 ppm<br>Long-term value: 606 mg/m <sup>3</sup> , 200 ppm |

### 67-64-1 acetone

|     |  |
|-----|--|
| PEL | Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm |
| REL | Long-term value: 590 mg/m <sup>3</sup> , 250 ppm   |

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|  |   |
|--|---|
| TLV  | Short-term value: 1187 mg/m <sup>3</sup> , 500 ppm<br>Long-term value: 594 mg/m <sup>3</sup> , 250 ppm<br>BEI   |
| <b>7727-43-7 barium sulphate, natural</b>          |   |
| PEL  | Long-term value: 15* 5** mg/m <sup>3</sup><br>*total dust **respirable fraction   |
| REL  | Long-term value: 10* 5** mg/m <sup>3</sup><br>*total dust **respirable fraction   |
| TLV  | Long-term value: 5* mg/m <sup>3</sup><br>*inhalable fraction; E   |
| <b>· Ingredients with biological limit values:</b> |   |
| <b>108-88-3 toluene</b>                            |   |
| BEI  | 0.02 mg/L<br>Medium: blood<br>Time: prior to last shift of workweek<br>Parameter: Toluene<br><br>0.03 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Toluene<br><br>0.3 mg/g creatinine<br>Medium: urine<br>Time: end of shift<br>Parameter: o-Cresol with hydrolysis (background) |
| <b>67-64-1 acetone</b>                             |   |
| BEI  | 50 mg/L<br>Medium: urine<br>Time: end of shift<br>Parameter: Acetone (nonspecific)  |

· **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

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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· **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:**

Safety glasses



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **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:** 455 °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: | 1.2 Vol %  |
| Upper: | 16.0 Vol % |

· **Vapor pressure at 20 °C:** 220 hPa

|                   |                           |
|-------------------|---------------------------|
| Density at 20 °C: | 1.04516 g/cm <sup>3</sup> |
| Relative density  | Not determined.           |
| Vapor density     | Not determined.           |
| Evaporation rate  | Not applicable.           |

· **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:** 67.1 %
  - VOC content:** 39.0 %
  - 584.3 g/l / 4.88 lb/gl
- **Solids content:** 33.5 %
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

### 108-88-3 toluene

|            |          |                      |
|------------|----------|----------------------|
| Oral       | LD50     | 5000 mg/kg (rat)     |
| Dermal     | LD50     | 12124 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 5320 mg/l (mouse)    |

- **Primary irritant effect:**
  - on the skin:** Irritant to skin and mucous membranes.
  - on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

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

|            |              |    |
|------------|--------------|----|
| 108-88-3   | toluene      | 3  |
| 14807-96-6 | Talc         | 3  |
| 1333-86-4  | Carbon black | 2B |

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

68911-87-5 montmorilontie clay complex

## 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

- |                                  |                     |
|----------------------------------|---------------------|
| · <b>UN-Number</b>               |                     |
| · <b>DOT, ADR, IMDG, IATA</b>    | UN1950              |
| · <b>UN proper shipping name</b> |                     |
| · <b>DOT</b>                     | Aerosols, flammable |
| · <b>ADR</b>                     | 1950 Aerosols       |
| · <b>IMDG</b>                    | AEROSOLS            |
| · <b>IATA</b>                    | AEROSOLS, flammable |

· **Transport hazard class(es)**

· **DOT**



· **Class**

2.1

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· **Label** 2.1

· **ADR**



· **Class** 2 5F Gases

· **Label** 2.1

· **IMDG, IATA**



· **Class** 2.1

· **Label** 2.1

· **Packing group**

· **DOT, ADR, IMDG, IATA** Void

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Gases

· **EMS Number:** F-D,S-U

· **Stowage Code** SW1 Protected from sources of heat.

· **Segregation Code** SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.  
SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

· **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: 75 kg  
On cargo aircraft only: 150 kg

· **ADR**

· **Excepted quantities (EQ)** Code: E0  
Not permitted as Excepted Quantity

· **IMDG**

· **Limited quantities (LQ)** 1L

· **Excepted quantities (EQ)** Code: E0  
Not permitted as Excepted Quantity

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Reviewed on 06/20/2017

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· **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 313 (Specific toxic chemical listings):**

|            |                          |
|------------|--------------------------|
| 108-88-3   | toluene                  |
| 7727-43-7  | barium sulphate, natural |
| 14807-96-6 | Talc                     |
| 67-56-1    | methanol                 |

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

|            |   |
|------------|---|
| 108-88-3   | toluene   |
| 79-20-9    | methyl acetate  |
| 98-56-6    | 4-chloro-alpha,alpha,alpha-trifluorotoluene   |
| 67-64-1    | acetone   |
| 7727-43-7  | barium sulphate, natural  |
| 14807-96-6 | Talc  |
| 69430-35-9 | Alicyclic hydrocarbon resin   |
| 9017-27-0  | Alpha-methyl styrene/vinyl toluene copolymer  |
| 66070-58-4 | Styrene-Ethylene/Butylene-Styrene block Copolymer   |
| 68911-87-5 | montmorilontie clay complex   |
| 1333-86-4  | Carbon black  |
| 67-56-1    | methanol  |
| 8042-47-5  | White Mineral oil   |
| 6683-19-8  | Tertrakis(methylene(3,5-di(tert)-butyl-4-hydroxyhydrocinnamate) ) methane                 |
| 84633-54-5 | Pentaerythritol tris tri ester with 3-(3,5-di-(tert)-butyl-4-hydroxyphenyl)propionic acid |
| 7732-18-5  | water   |

· **Proposition 65**

· **Chemicals known to cause cancer:**

|           |              |
|-----------|--------------|
| 1333-86-4 | Carbon black |
|-----------|--------------|

· **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  |
| 67-56-1  | methanol |

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· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

|           |                          |                       |
|-----------|--------------------------|-----------------------|
| 108-88-3  | toluene                  | II                    |
| 67-64-1   | acetone                  | I                     |
| 7727-43-7 | barium sulphate, natural | D, CBD(inh), NL(oral) |

· **TLV (Threshold Limit Value established by ACGIH)**

|            |              |    |
|------------|--------------|----|
| 108-88-3   | toluene      | A4 |
| 67-64-1    | acetone      | A4 |
| 14807-96-6 | Talc         | A4 |
| 1333-86-4  | Carbon black | A4 |

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

|           |              |  |
|-----------|--------------|--|
| 1333-86-4 | Carbon black |  |
| 67-56-1   | methanol     |  |

· **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  
methyl acetate  
4-chloro-alpha,alpha,alpha-trifluorotoluene  
acetone

· **Hazard statements**

H222      Extremely flammable aerosol.  
H280      Contains gas under pressure; may explode if heated.  
H315      Causes skin irritation.  
H319      Causes serious eye irritation.  
H361      Suspected of damaging fertility or the unborn child.  
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.  
H373      May cause damage to organs 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/sparks/open flames/hot surfaces. No smoking.  
P211      Do not spray on an open flame or other ignition source.  
P251      Do not pierce or burn, even after use.  
P260      Do not breathe dust/fume/gas/mist/vapors/spray.  
P264      Wash thoroughly after handling.  
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.  
P302+P352      IF ON SKIN: Wash with plenty of water.

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- 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.*
- P332+P313 *If skin irritation 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.*
- P403+P233 *Store in a well-ventilated place. Keep container tightly closed.*
- P405 *Store locked up.*
- P410+P403 *Protect from sunlight. Store in a well-ventilated place.*
- P410+P412 *Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.*
- 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 / 5

· **Abbreviations and acronyms:**

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. Aerosol 1: Aerosols – Category 1

Press. Gas: Gases under pressure – Compressed gas

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 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

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