**1 Identification**

- **Product identifier**
  - **Trade name:** 40903 1K HS Clear
  - **Article number:** 40903
  - **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.

  - [GHS07](#)

  Eye Irrit. 2A H319 Causes serious eye irritation.
  Skin Sens. 1 H317 May cause an allergic skin reaction.
  STOT SE 3 H336 May cause drowsiness or dizziness.

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

  - GHS02
  - GHS04
  - GHS07

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - acetone
  - bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate

(Contd. on page 2)
Hazard statements
H222 Extremely flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.

Precautionary statements
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.
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 / 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.
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.
P363 Wash contaminated clothing 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.

Classification system:

NFPA ratings (scale 0 - 4)

Health = 2
Fire = 4
Reactivity = 3

HMIS-ratings (scale 0 - 4)

Health = 2
Fire = 4
Reactivity = 3

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

Composition/information on ingredients

Chemical characterization: Mixtures

Description:
Mixture: consisting of the following components.
Trade name: 40903 1K HS Clear

Weight percentages

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum gases, liquefied, sweetened</td>
<td>13-30%</td>
</tr>
<tr>
<td>acetone</td>
<td>13-30%</td>
</tr>
<tr>
<td>isobutyl acetate</td>
<td>13-30%</td>
</tr>
<tr>
<td>heptan-2-one</td>
<td>10-13%</td>
</tr>
<tr>
<td>ethyl 3-ethoxypropionate</td>
<td>1.5-5%</td>
</tr>
<tr>
<td>2-(2-HYDROXY-3-5-DI-(TERT)-AMYLPHENYL)BENZOTRIAZOLE</td>
<td>≥0.1-&lt;1%</td>
</tr>
<tr>
<td>bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate</td>
<td>≥0.1-&lt;1%</td>
</tr>
</tbody>
</table>

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:**
  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:** 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:** 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
  - 110-19-0 isobutyl acetate 450 ppm
  - 110-43-0 heptan-2-one 150 ppm
  - 763-69-9 ethyl 3-ethoxypropionate 1.6 ppm

- **PAC-2:**
  - 67-64-1 acetone 3200* ppm
  - 110-19-0 isobutyl acetate 1300* ppm
  - 110-43-0 heptan-2-one 670 ppm
  - 763-69-9 ethyl 3-ethoxypropionate 18 ppm

- **PAC-3:**
  - 67-64-1 acetone 5700* ppm
  - 110-19-0 isobutyl acetate 7500** ppm
  - 110-43-0 heptan-2-one 4000* ppm
  - 763-69-9 ethyl 3-ethoxypropionate 110 ppm

**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.

**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/m³, 1000 ppm
### Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Compound</th>
<th>BEI</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1 acetone</td>
<td>50 mg/L</td>
<td>urine</td>
<td>end of shift</td>
<td>Acetone (nonspecific)</td>
</tr>
</tbody>
</table>

### 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.
- 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.
- Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

![Protective gloves](image)

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.
**Trade name:** 40903 1K HS Clear

**9 Physical and chemical properties**

- **Eye protection:**
  - Safety glasses
  - Tightly sealed goggles

<table>
<thead>
<tr>
<th><strong>· Information on basic physical and chemical properties</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>· General Information</strong></td>
</tr>
<tr>
<td><strong>· Appearance:</strong></td>
</tr>
<tr>
<td><strong>· Form:</strong> Aerosol</td>
</tr>
<tr>
<td><strong>· Color:</strong> According to product specification</td>
</tr>
<tr>
<td><strong>· Odor:</strong> Characteristic</td>
</tr>
<tr>
<td><strong>· Odor threshold:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>· pH-value:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>· Change in condition</strong></td>
</tr>
<tr>
<td><strong>· Melting point/Melting range:</strong> Undetermined.</td>
</tr>
<tr>
<td><strong>· Boiling point/Boiling range:</strong> 55 °C</td>
</tr>
<tr>
<td><strong>· Flash point:</strong> -103 °C</td>
</tr>
<tr>
<td>**· Flammability (solid, gaseous): Not applicable.</td>
</tr>
<tr>
<td><strong>· Ignition temperature:</strong> 405 °C</td>
</tr>
<tr>
<td><strong>· Decomposition temperature:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>· Auto igniting:</strong> Product is not selfigniting.</td>
</tr>
<tr>
<td><strong>· Danger of explosion:</strong> In use, may form flammable/explosive vapour-air mixture.</td>
</tr>
<tr>
<td><strong>· Explosion limits:</strong></td>
</tr>
<tr>
<td><strong>· Lower:</strong> 1 Vol %</td>
</tr>
<tr>
<td><strong>· Upper:</strong> 13 Vol %</td>
</tr>
<tr>
<td><strong>· Vapor pressure at 20 °C:</strong> 233 hPa</td>
</tr>
<tr>
<td><strong>· Density at 20 °C:</strong> 0.75128 g/cm³</td>
</tr>
<tr>
<td><strong>· Relative density:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>· Vapor density:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>· Evaporation rate:</strong> Not applicable.</td>
</tr>
<tr>
<td><strong>· Solubility in / Miscibility with Water:</strong> Not miscible or difficult to mix.</td>
</tr>
<tr>
<td><strong>· Partition coefficient (n-octanol/water):</strong> Not determined.</td>
</tr>
<tr>
<td><strong>· Viscosity:</strong></td>
</tr>
<tr>
<td><strong>· Dynamic:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>· Kinematic:</strong> Not determined.</td>
</tr>
<tr>
<td><strong>· Solvent content:</strong></td>
</tr>
<tr>
<td><strong>· Organic solvents:</strong> 86.5 %</td>
</tr>
</tbody>
</table>
Trade name: 40903 1K HS Clear

VOC content: 62.71 %
609.1 g/l / 5.08 lb/gl

Solids content: 13.5 %

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: No irritant effect.
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)
None of the ingredients is listed.

NTP (National Toxicology Program)
None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

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.
Trade name: 40903 1K HS Clear

- 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 UN1950
- UN proper shipping name
  - DOT Aerosols, flammable
  - ADR 1950 Aerosols
  - IMDG AEROSOLS
  - IATA AEROSOLS, flammable
- Transport hazard class(es)
  - DOT
    - Class 2.1
    - Label 2.1
  - ADR
    - Class 2.5F Gases
    - Label 2.1
  - IMDG, IATA
    - Class 2.1
    - Label 2.1

(Contd. on page 9)
Trade name: 40903 1K HS Clear

<table>
<thead>
<tr>
<th>Packing group</th>
<th>Void</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT, ADR, IMDG, IATA</td>
<td></td>
</tr>
</tbody>
</table>

| Environmental hazards:        | No   |
| Marine pollutant:             |      |

| Special precautions for user  | Warning: Gases |
| EMS Number:                   | F-D,S-U      |
| Stowage Code                  | SW1 Protected from sources of heat. |
|                              | 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. |

| Segregation Code              | 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 |

| 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): |
| None of the ingredients is listed. |

| TSCA (Toxic Substances Control Act): |
| 67-64-1  acetone                     |
| 110-19-0  isobutyl acetate           |
| 110-43-0  heptan-2-one               |

(Contd. on page 10)
## Trade name: 40903 1K HS Clear

### Chemicals known to cause cancer:
None of the ingredients is listed.

### Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

### Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

### Chemicals known to cause developmental toxicity:
None of the ingredients is listed.

### Cancerogenity categories
- **EPA (Environmental Protection Agency)**
  - 67-64-1 acetone

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

### Hazard pictograms
- GHS02
- GHS04
- GHS07

### Signal word
- Danger

### Hazard-determining components of labeling:
- acetone
- bis(1,2,2,6,6-Pentamethyl-4-piperidinyl) sebacate

### Hazard statements
- H222 Extremely flammable aerosol.
- H280 Contains gas under pressure; may explode if heated.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.

### Precautionary statements
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P211 Do not spray on an open flame or other ignition source.
Trade name: 40903 1K HS Clear

P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
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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: Rita Joiner (rjoiner@semproducts.com)
· Date of preparation / last revision 03/14/2018 / 12
· 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. Aerosol 1: Aerosols – Category 1
  Press. Gas: Gases under pressure – Compressed gas
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Trade name: 40903 1K HS Clear

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.