

## 1 Identification

- **Product identifier**
- **Trade name:** 38373 SEM Solve Aerosol
- **Article number:** 38373
- **Application of the substance / the mixture** Exterior vehicle cleaner
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SEM Products Inc.  
1685 Overview Drive  
Rock Hill, SC 29730  
803 207 8225
- **Information department:**  
cust\_care@semproducts.com : SEM Products, Inc. 1685 Overview Dr. Rock Hill, SC 29730 : phone 1-800-831-1122, M - TH 7am - 4pm EDT
- **Emergency telephone number:** CHEMTREC 1-800-424-9300

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 GHS04 Flame, Gas cylinder

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Muta. 1A H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Label elements**

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

- **Hazard pictograms**



GHS02 GHS04 GHS07 GHS08

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· **Signal word** *Danger*

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

*Solvent naphtha (petroleum), light aliph.*

*Petroleum gases, liquefied, sweetened*

· **Hazard statements**

*H222 Extremely flammable aerosol.*

*H280 Contains gas under pressure; may explode if heated.*

*H315 Causes skin irritation.*

*H340 May cause genetic defects.*

*H350 May cause cancer.*

*H304 May be fatal if swallowed and enters airways.*

· **Precautionary statements**

*P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.*

*P251 Do not pierce or burn, even after use.*

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

*P280 Wear protective gloves.*

*P264 Wash thoroughly after handling.*

*P201 Obtain special instructions before use.*

*P202 Do not handle until all safety precautions have been read and understood.*

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

*P321 Specific treatment (see on this label).*

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

*P332+P313 If skin irritation occurs: Get medical advice/attention.*

*P331 Do NOT induce vomiting.*

*P302+P352 IF ON SKIN: Wash with plenty of water.*

*P362+P364 Take off contaminated clothing and wash it before reuse.*

*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 = 1*

*Fire = 4*

*Reactivity = 3*

· **HMIS-ratings (scale 0 - 4)**



*Health = \*1*

*Fire = 4*

*Reactivity = 3*

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** *Not applicable.*

· **vPvB:** *Not applicable.*



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### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**  
Mixture: consisting of the following components.  
Weight percentages

- **Dangerous components:**

|            |   |          |
|------------|---|----------|
| 64742-89-8 | Solvent naphtha (petroleum), light aliph. | 60 - 70% |
| 68476-86-8 | Petroleum gases, liquefied, sweetened     | 13 - 30% |
| 1330-20-7  | xylene                                    | 13 - 30% |

### \* 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **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.
- **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:**  
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:** No special measures required.
- **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.

USA

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**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.
- **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.  
Keep respiratory protective device available.  
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:**

**1330-20-7 xylene**

|     |  |
|-----|--|
| PEL | Long-term value: 435 mg/m <sup>3</sup> , 100 ppm   |
| REL | Short-term value: 655 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 435 mg/m <sup>3</sup> , 100 ppm        |
| TLV | Short-term value: 651 mg/m <sup>3</sup> , 150 ppm<br>Long-term value: 434 mg/m <sup>3</sup> , 100 ppm<br>BEI |

· **Ingredients with biological limit values:**

**1330-20-7 xylene**

|     |  |
|-----|--|
| BEI | 1.5 g/g creatinine<br>Medium: urine<br>Time: end of shift<br>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.  
Store protective clothing separately.

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Avoid contact with the skin.

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:**

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

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



Protective gloves

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

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break 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:**

|                          |                                    |
|--------------------------|------------------------------------|
| · <b>Form:</b>           | Aerosol                            |
| · <b>Color:</b>          | According to product specification |
| · <b>Odor:</b>           | Characteristic                     |
| · <b>Odor threshold:</b> | Not determined.                    |

· **pH-value:** Not determined.

· **Change in condition**

|                                       |               |
|---------------------------------------|---------------|
| · <b>Melting point/Melting range:</b> | Undetermined. |
| · <b>Boiling point/Boiling range:</b> | 131 °C        |

· **Flash point:** -103 °C

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

· **Ignition temperature:** 500 °C

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

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|   |   |
|---|---|
| · <b>Danger of explosion:</b>                     | <i>In use, may form flammable/explosive vapour-air mixture.</i> |
| · <b>Explosion limits:</b>                        |   |
| Lower:  | 1.1 Vol %   |
| Upper:  | 9.5 Vol %   |
| · <b>Vapor pressure at 20 °C:</b>                 | 14 hPa  |
| · <b>Density at 20 °C:</b>                        | 0.70363 g/cm <sup>3</sup>                                       |
| · <b>Relative density</b>                         | Not determined.   |
| · <b>Vapor density</b>                            | Not determined.   |
| · <b>Evaporation rate</b>                         | Not applicable.   |
| · <b>Solubility in / Miscibility with Water:</b>  | Not miscible or difficult to mix.                               |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.   |
| · <b>Viscosity:</b>                               |   |
| Dynamic:  | Not determined.   |
| Kinematic:  | Not determined.   |
| · <b>Solvent content:</b>                         |   |
| Organic solvents:                                 | 100.0 %   |
| VOC content:                                      | 100.0 %   |
|   | 703.6 g/l / 5.87 lb/gl  |
| · <b>Other information</b>                        | 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:**

|   |      |                     |
|---|------|---------------------|
| · <b>LD/LC50 values that are relevant for classification:</b> |      |                     |
| 1330-20-7 xylene  |      |                     |
| Oral  | LD50 | 4300 mg/kg (rat)    |
| Dermal  | LD50 | 2000 mg/kg (rabbit) |

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.

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· **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

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· **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:** Generally not hazardous for water
- **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, IATA** Aerosols, flammable
- **ADR** 1950 Aerosols
- **IMDG** AEROSOLS

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· **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

· **Packing group**  
· **DOT, ADR, IMDG, IATA** Void

· **Environmental hazards:**  
· **Marine pollutant:** No

· **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.

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**· 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):**

1330-20-7 | xylene

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

All ingredients are listed.

**· Proposition 65**

**· Chemicals known to cause cancer:**

1330-20-7 | xylene

**· 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)**

1330-20-7 | xylene

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

1330-20-7 | xylene

A4

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

None of the ingredients is listed.

**· 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:**

*Solvent naphtha (petroleum), light aliph.  
Petroleum gases, liquefied, sweetened*

· **Hazard statements**

*H222 Extremely flammable aerosol.  
H280 Contains gas under pressure; may explode if heated.  
H315 Causes skin irritation.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H304 May be fatal if swallowed and enters airways.*

· **Precautionary statements**

*P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P251 Do not pierce or burn, even after use.  
P211 Do not spray on an open flame or other ignition source.  
P280 Wear protective gloves.  
P264 Wash thoroughly after handling.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P321 Specific treatment (see on this label).  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P331 Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
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.*

· **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.*

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· **Contact:** Steve Gaver (sgaver@semproducts.com)

· **Date of preparation / last revision** 02/22/2016 / 6

· **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)*

*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: Flammable aerosols, Hazard Category 1*

*Press. Gas: Gases under pressure: Compressed gas*

*Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2*

*Muta. 1A: Germ cell mutagenicity, Hazard Category 1A*

*Carc. 1B: Carcinogenicity, Hazard Category 1B*

*Asp. Tox. 1: Aspiration hazard, Hazard Category 1*

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