1 Identification

- Product identifier
- Trade name: Semi-Volatiles Standard no. 3 (1X1 mL)
- Part number: SVM-122-1
- Application of the substance / the mixture: Reagents and Standards for Analytical Chemical Laboratory Use
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: Agilent Technologies, Inc.
    5301 Stevens Creek Blvd.
    Santa Clara, CA  95051  USA
  - Information department: Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
  - Emergency telephone number: CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- Classification of the substance or mixture
  - GHS08 Health hazard
    Carc. 1B H350 May cause cancer.
    Repr. 1B H360 May damage fertility or the unborn child.
    STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
  - GHS07
    Acute Tox. 4 H302 Harmful if swallowed.
    Acute Tox. 4 H312 Harmful in contact with skin.
    Skin Irrit. 2 H315 Causes skin irritation.
    Eye Irrit. 2A H319 Causes serious eye irritation.
    Skin Sens. 1 H317 May cause an allergic skin reaction.
    STOT SE 3 H335 May cause respiratory irritation.

- Label elements
  - GHS label elements: The product is classified and labeled according to the Globally Harmonized System (GHS).
  - Hazard pictograms
    - GHS07
    - GHS08

- Signal word: Danger

- Hazard-determining components of labeling:
  dichloromethane
  hexachlorobuta-1,3-diene
  4-chloroaniline

(Contd. on page 2)
nitrobenzene
chlorocresol

· **Hazard statements**
Harmful if swallowed or in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May cause cancer.
May damage fertility or the unborn child.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
If on skin: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

![NFPA ratings](image)
Health = 2
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

![HMIS ratings](image)
Health = *2
Fire = 0
Reactivity = 0
Other hazards

Results of PBT and vPvB assessment

PBT:
- 87-68-3 hexachlorobuta-1,3-diene
- 120-82-1 1,2,4-trichlorobenzene

vPvB:
- 87-68-3 hexachlorobuta-1,3-diene

Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:
- 75-09-2 dichloromethane 97.286%
- 59-50-7 chlorocresol 0.151%
- 106-47-8 4-chloroaniline 0.151%
- 87-68-3 hexachlorobuta-1,3-diene 0.151%
- 100-75-4 1-nitrosopiperidine 0.151%
- 924-16-3 N-nitrosodibutylamine 0.151%
- 98-95-3 nitrobenzene 0.151%
- 120-82-1 1,2,4-trichlorobenzene 0.151%
- 91-20-3 naphthalene 0.151%
- 78-59-1 3,5,5-trimethylcyclohex-2-enone 0.151%

First-aid measures

Description of first aid measures

General information:
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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:
Immediately call a 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**: Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
  
  During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
  
  - **Protective equipment**: Mouth respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
- **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.
- **Protective Action Criteria for Chemicals**

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
<td>200 ppm</td>
</tr>
<tr>
<td>87-65-0</td>
<td>2,6-dichlorophenol</td>
<td>8.8 mg/m³</td>
</tr>
<tr>
<td>111-91-1</td>
<td>bis(2-chloroethoxy)methane</td>
<td>0.04 ppm</td>
</tr>
<tr>
<td>59-50-7</td>
<td>chlorocresol</td>
<td>5.5 mg/m³</td>
</tr>
<tr>
<td>106-47-8</td>
<td>4-chloroaniline</td>
<td>6.1 mg/m³</td>
</tr>
<tr>
<td>105-67-9</td>
<td>2,4-xylene</td>
<td>6.9 mg/m³</td>
</tr>
<tr>
<td>120-83-2</td>
<td>2,4-dichlorophenol</td>
<td>0.2 ppm</td>
</tr>
<tr>
<td>87-68-3</td>
<td>hexachlorobuta-1,3-diene</td>
<td>1 ppm</td>
</tr>
<tr>
<td>91-57-6</td>
<td>2-methylnaphthalene</td>
<td>9 mg/m³</td>
</tr>
<tr>
<td>98-95-3</td>
<td>nitrobenzene</td>
<td>3 ppm</td>
</tr>
<tr>
<td>88-75-5</td>
<td>2-nitrophenol</td>
<td>2.1 mg/m³</td>
</tr>
<tr>
<td>120-82-1</td>
<td>1,2,4-trichlorobenzene</td>
<td>0.45 ppm</td>
</tr>
<tr>
<td>98-86-2</td>
<td>acetophenone</td>
<td>30 ppm</td>
</tr>
<tr>
<td>91-20-3</td>
<td>naphthalene</td>
<td>15 ppm</td>
</tr>
<tr>
<td>65-85-0</td>
<td>Benzoic acid</td>
<td>13 mg/m³</td>
</tr>
<tr>
<td>78-59-1</td>
<td>3,5,5-trimethylcyclohex-2-enone</td>
<td>12 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
<td>560 ppm</td>
</tr>
<tr>
<td>87-65-0</td>
<td>2,6-dichlorophenol</td>
<td>97 mg/m³</td>
</tr>
<tr>
<td>111-91-1</td>
<td>bis(2-chloroethoxy)methane</td>
<td>0.44 ppm</td>
</tr>
<tr>
<td>59-50-7</td>
<td>chlorocresol</td>
<td>60 mg/m³</td>
</tr>
</tbody>
</table>

(Contd. on page 5)
7 Handling and storage

· Handling:
  · Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Open and handle receptacle with care.
    Prevent formation of aerosols.
  · Information about protection against explosions and fires: Keep respiratory protective device available.

· 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.
8 Exposure controls/personal protection

8.1 Additional information about design of technical systems: No further data; see item 7.

8.2 Control parameters

8.2.1 Components with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL Short-term value</th>
<th>PEL Long-term value: 25 ppm</th>
<th>REL See Pocket Guide App. A</th>
<th>TLV Long-term value: 174 mg/m³, 50 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2 dichloromethane</td>
<td></td>
<td>see 29 CFR 1910.1052</td>
<td></td>
<td>BEI</td>
</tr>
<tr>
<td>87-68-3 hexachlorobuta-1,3-diene</td>
<td>REL Long-term value: 0.24 mg/m³, 0.02 ppm</td>
<td>Skin; See Pocket Guide App. A</td>
<td>TLV Long-term value: 0.21 mg/m³, 0.02 ppm</td>
<td>Skin</td>
</tr>
<tr>
<td>98-95-3 nitrobenzene</td>
<td>PEL Long-term value: 5 mg/m³, 1 ppm</td>
<td>Skin</td>
<td>REL Long-term value: 5 mg/m³, 1 ppm</td>
<td>Skin</td>
</tr>
<tr>
<td>91-20-3 naphthalene</td>
<td>PEL Long-term value: 50 mg/m³, 10 ppm</td>
<td>Skin</td>
<td>REL Short-term value: 75 mg/m³, 15 ppm</td>
<td>Long-term value: 50 mg/m³, 10 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TLV Long-term value: 52 mg/m³, 10 ppm</td>
<td>Skin; BEI</td>
</tr>
<tr>
<td>78-59-1 3,5,5-trimethylcyclohex-2-enone</td>
<td>PEL Long-term value: 140 mg/m³, 25 ppm</td>
<td>REL Long-term value: 23 mg/m³, 4 ppm</td>
<td>TLV Ceiling limit value: 28 mg/m³, 5 ppm</td>
<td></td>
</tr>
</tbody>
</table>

8.3 Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>Component</th>
<th>BEI 0.3 mg/L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium: urine</td>
<td>Time: end of shift</td>
</tr>
<tr>
<td>Parameter: Dichloromethane (semi-quantitative)</td>
<td></td>
</tr>
</tbody>
</table>
Trade name: Semi-Volatiles Standard no. 3 (1X1 mL)

98-95-3 nitrobenzene

BEI 5 mg/g creatinine
Medium: urine
Time: end of shift at end of workweek
Parameter: Total p-nitrophenol (nonspecific)

1.5 % of hemoglobin
Medium: blood
Time: end of shift
Parameter: Methemoglobin (background, nonspecific, semi-quantitative)

- 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:
  When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.
  Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.
- Protection of hands:
  Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.
- Material of gloves
  For normal use: nitrile rubber, 11-13 mil thickness
  For direct contact with the chemical: butyl rubber, 12-15 mil thickness
- Penetration time of glove material
  For normal use: nitrile rubber: 1 hour
  For direct contact with the chemical: butyl rubber: >4 hours
- Eye protection:
  Safety glasses
  Tightly sealed goggles
9 Physical and chemical properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Fluid
      - Color: Colorless
    - Odor: Like chlorine
    - Odor threshold: Not determined.
  - pH-value: Not determined.

- Change in condition
  - Melting point/Melting range: -95.1 °C (-139.2 °F)
  - Boiling point/Boiling range: 40 °C (104 °F)

- Flash point: Not applicable.

- Flammability (solid, gaseous): Not applicable.

- Ignition temperature: 605 °C (1,121 °F)

- Decomposition temperature: Not determined.

- Auto igniting: Product is not selfigniting.

- Danger of explosion: Product does not present an explosion hazard.

- Explosion limits:
  - Lower: 13 Vol %
  - Upper: 22 Vol %

- Vapor pressure at 20 °C (68 °F): 360 hPa (270 mm Hg)

- Density at 20 °C (68 °F): 1.3 g/cm³ (10.8485 lbs/gal)

- Relative density: Not determined.

- Vapor density: Not determined.

- Evaporation rate: Not determined.

- Solubility in / Miscibility with Water at 20 °C (68 °F): 20 g/l

- Partition coefficient (n-octanol/water): Not determined.

- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.

- Solvent content:
  - Organic solvents: 97.9 %
  - VOC content: 0.60 %

- Solids content: 1.2 %

- Other information: No further relevant information available.

10 Stability and reactivity

- Reactivity: No further relevant information available.
**11 Toxicological information**

- **Information on toxicological effects**
  - **Acute toxicity:**
    - **LD/LC50 values that are relevant for classification:**
      | Chemical     | Oral LD50 | Dermal LD50 | inhalative LC50/4 h |
      |--------------|-----------|-------------|--------------------|
      | ATE (Acute Toxicity Estimate) | 1,412 mg/kg | >1,964 mg/kg | 76.5 mg/L |
      | 75-09-2 dichloromethane | 1,600 mg/kg (rat) | >2,000 mg/kg (rat) | 88 mg/L (rat) |
      | 59-50-7 chlorocresol | 1,830 mg/kg (rat) | >2,000 mg/kg (rat) | |
      | 106-47-8 4-chloroaniline | 310 mg/kg (rat) | 3,200 mg/kg (rat) | |
      | 87-68-3 hexachlorobuta-1,3-diene | 82 mg/kg (rat) | 100 mg/kg (rabbit) | 370 mg/L (mouse) |
      | 100-75-4 1-nitrosopiperidine | 200 mg/kg (rat) | |
      | 924-16-3 N-nitrosodibutylamine | 1,200 mg/kg (rat) | |
      | 98-95-3 nitrobenzene | 390 mg/kg (rat) | 2,100 mg/kg (rat) | 556 mg/L (rat) |
      | 120-82-1 1,2,4-trichlorobenzene | 756 mg/kg (rat) | 6,139 mg/kg (rat) | |
Trade name: Semi-Volatiles Standard no. 3 (1X1 mL)

<table>
<thead>
<tr>
<th>Substance Code</th>
<th>Substance</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalative LC50/4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>91-20-3</td>
<td>naphthalene</td>
<td>490 mg/kg (rat)</td>
<td>5,000 mg/kg (rat)</td>
<td>7,000 mg/L (rat)</td>
</tr>
<tr>
<td>78-59-1</td>
<td>3,5,5-trimethylcyclohex-2-enone</td>
<td>1,870 mg/kg (rat)</td>
<td>1,200 mg/kg (rabbit)</td>
<td></td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
  - **Sensitization:** Sensitization possible through skin contact.
  - **Additional toxicological information:** The product shows the following dangers according to internally approved calculation methods for preparations:
    - Harmful
    - Irritant

- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - 75-09-2 dichloromethane 2A
    - 87-65-0 2,6-dichlorophenol 2B
    - 106-47-8 4-chloroamidine 2B
    - 120-83-2 2,4-dichlorophenol 2B
    - 87-68-3 hexachlorobuta-1,3-diene 3
    - 100-75-4 1-nitrosopiperidine 2B
    - 924-16-3 N-nitrosodibutylamine 2B
    - 98-95-3 nitrobenzene 2B
    - 91-20-3 naphthalene 2B
  - **NTP (National Toxicology Program)**
    - 75-09-2 dichloromethane R
    - 100-75-4 1-nitrosopiperidine R
    - 924-16-3 N-nitrosodibutylamine R
    - 98-95-3 nitrobenzene R
    - 91-20-3 naphthalene R
  - **OSHA-Ca (Occupational Safety & Health Administration)**
    - 75-09-2 dichloromethane

**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.
### 48.1.26 Additional ecological information:

- General notes:
  - Water hazard class 3 (Self-assessment): extremely hazardous for water
  - 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.

### 51.2 Results of PBT and vPvB assessment

- **PBT:**
  - 87-68-3 hexachlorobuta-1,3-diene
  - 120-82-1 *1,2,4-trichlorobenzene*

- **vPvB:**
  - 87-68-3 hexachlorobuta-1,3-diene

### 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

- **Not Regulated, De minimus Quantities**

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>DOT, IMDG, IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN1593</td>
<td></td>
</tr>
</tbody>
</table>

- **UN proper shipping name**
  - DOT: Dichloromethane
  - IMDG, IATA: DICHLOROMETHANE

- **Transport hazard class(es)**
  - DOT, IMDG, IATA

<table>
<thead>
<tr>
<th>Class</th>
<th>6.1 Toxic substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Label</td>
<td>6.1</td>
</tr>
</tbody>
</table>

- **Packing group**
  - DOT, IMDG, IATA: III

- **Environmental hazards:**
  - Not applicable.

- **Special precautions for user**
  - Warning: Toxic substances
  - 60

- **EMS Number:**
  - F-A,S-A
### 48.1.26 Segregation groups
- Liquid halogenated hydrocarbons

### 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

#### Hazardous substance:
- 1000 lbs, 454 kg

#### 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 1593 DICHLOROMETHANE, 6.1, III

### Regulatory information

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

#### Sara
- **Section 355 (extremely hazardous substances):**
  - 98-95-3 nitrobenzene

#### Section 313 (Specific toxic chemical listings):
- 75-09-2 dichloromethane
- 87-65-0 2,6-dichlorophenol
- 111-91-1 bis(2-chloroethoxy)methane
- 106-47-8 4-chloroaniline
- 105-67-9 2,4-xylene
- 120-83-2 2,4-dichlorophenol
- 87-68-3 hexachlorobuta-1,3-diene
- 100-75-4 1-nitrosopiperidine
- 924-16-3 N-nitrosodiethylamine
- 98-95-3 nitrobenzene
- 88-75-5 2-nitrophenol
- 120-82-1 1,2,4-trichlorobenzene
- 98-86-2 acetophenone
- 91-20-3 naphthalene

#### TSCA (Toxic Substances Control Act):
- All ingredients are listed.

#### TSCA new (21st Century Act): (Substances not listed)
- 59-50-7 chlorocresol
- 87-68-3 hexachlorobuta-1,3-diene
### Trade name: Semi-Volatiles Standard no. 3 (1X1 mL)

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>100-75-4</td>
<td>1-nitrosopiperidine</td>
</tr>
<tr>
<td>924-16-3</td>
<td>N-nitrosodibutylamine</td>
</tr>
</tbody>
</table>

#### Proposition 65

- **Chemicals known to cause cancer:**
  - 75-09-2 dichloromethane
  - 106-47-8 4-chloroaniline
  - 87-68-3 hexachlorobuta-1,3-diene
  - 100-75-4 1-nitrosopiperidine
  - 924-16-3 N-nitrosodibutylamine
  - 98-95-3 nitrobenzene
  - 91-20-3 naphthalene

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

- **Chemicals known to cause reproductive toxicity for males:**
  - 98-95-3 nitrobenzene

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

#### Carcinogenic categories

- **EPA (Environmental Protection Agency)**
  - 75-09-2 dichloromethane L
  - 111-91-1 bis(2-chloroethoxy)methane D
  - 87-68-3 hexachlorobuta-1,3-diene C
  - 91-57-6 2-methylnaphthalene I
  - 924-16-3 N-nitrosodibutylamine B2
  - 98-95-3 nitrobenzene L
  - 120-82-1 1,2,4-trichlorobenzene A4
  - 98-86-2 acetophenone D
  - 91-20-3 naphthalene C, CBD
  - 65-85-0 Benzoic acid D
  - 78-59-1 3,5,5-trimethylcyclohex-2-enone C

- **TLV (Threshold Limit Value established by ACGIH)**
  - 75-09-2 dichloromethane A3
  - 87-68-3 hexachlorobuta-1,3-diene A3
  - 91-57-6 2-methylnaphthalene A4
  - 98-95-3 nitrobenzene A3
  - 91-20-3 naphthalene A4
  - 78-59-1 3,5,5-trimethylcyclohex-2-enone A3

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
  - 75-09-2 dichloromethane
  - 87-68-3 hexachlorobuta-1,3-diene

(Contd. on page 12)
Trade name: Semi-Volatiles Standard no. 3 (1X1 mL)

- 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*

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- Department issuing SDS: Document Control / Regulatory
- Contact: regulatory@ultrasci.com
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- 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)
  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
  REL: Recommended Exposure Limit
  BEI: Biological Exposure Limit
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  Skin Sens. 1: Skin sensitisation – Category 1
  Carc. 1B: Carcinogenicity – Category 1B
  Repr. 1B: Reproductive toxicity – Category 1B
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

* Data compared to the previous version altered.