1 Identification

- **Product identifier**
- **Trade name:** Custom Standard
- **Part number:** CUS-9728
- **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**

  - **GHS02 Flame**
    Flam. Liq. 2 H225 Highly flammable liquid and vapor.

  - **GHS06 Skull and crossbones**
    Acute Tox. 3 H331 Toxic if inhaled.

  - **GHS08 Health hazard**
    STOT SE 1 H370 Causes damage to organs.

- **Label elements**

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

  - **GHS02**
  - **GHS06**
  - **GHS08**

- **Signal word** Danger

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

- **Hazard statements**
  - Highly flammable liquid and vapor.
  - Toxic if inhaled.
  - Causes damage to organs.

- **Precautionary statements**
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - Ground/bond container and receiving equipment.

(Contd. on page 2)
Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. 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. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Specific treatment (see on this label). In case of fire: Use for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.  

- **Classification system:**  
  - **NFPA ratings (scale 0 - 4)**  
  
  ![NFPAratings](image)  
  Health = 1  
  Fire = 3  
  Reactivity = 0  
  
  - **HMIS-ratings (scale 0 - 4)**  
  ![HMISRatings](image)  
  Health = *1  
  Fire = 3  
  Reactivity = 0  
  
- **Other hazards**  
- **Results of PBT and vPvB assessment**  
  - **PBT:** Not applicable.  
  - **vPvB:** Not applicable.  

### 3 Composition/information on ingredients  
- **Chemical characterization:** Mixtures  
- **Description:** Mixture of the substances listed below with nonhazardous additions.  

#### Dangerous components:  

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1 methanol</td>
<td>97.946%</td>
</tr>
</tbody>
</table>

### 4 First-aid measures  
- **Description of first aid measures**  
- **General information:**  
  Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.  
- **After inhalation:**  
  Supply fresh air or oxygen; call for 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.  

(Contd. on page 3)
Trade name: Custom Standard

(Contd. of page 2)

- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 **Fire-fighting measures**

- **Extinguishing media**
  - **Suitable extinguishing agents:**
    CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - **For safety reasons unsuitable extinguishing agents:**
    Water with full jet
  - **Special hazards arising from the substance or mixture:** No further relevant information available.
  - **Advice for firefighters**
    - **Protective equipment:** Mouth respiratory protective device.

6 **Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**
  Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.
- **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**

  - **PAC-1:**
    - 67-56-1 methanol 530 ppm
    - 156-59-2 cis-dichloroethylene 140 ppm
    - 156-60-5 trans-dichloroethylene 280 ppm
    - 75-34-3 1,1-dichloroethane 300 ppm
    - 71-43-2 benzene 52 ppm
    - 100-41-4 ethylbenzene 33 ppm
    - 98-82-8 cumene 50 ppm
    - 108-38-3 m-xylene 130 ppm
    - 103-65-1 propylbenzene 3.7 ppm
    - 108-88-3 toluene 67 ppm
    - 526-73-8 1,2,3-trimethylbenzene 140 ppm
    - 95-63-6 1,2,4-trimethylbenzene 140 ppm
    - 108-67-8 mesitylene 140 ppm
    - 611-14-3 2-ethyltoluene 20 mg/m³
    - 75-27-4 bromodichloromethane 1.3 mg/m³

(Contd. on page 4)
Trade name: Custom Standard

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-25-2</td>
<td>bromoform</td>
<td>1.5 ppm</td>
</tr>
<tr>
<td>56-23-5</td>
<td>carbon tetrachloride</td>
<td>1.2 ppm</td>
</tr>
<tr>
<td>67-66-3</td>
<td>trichloromethane</td>
<td>2 ppm</td>
</tr>
<tr>
<td>124-48-1</td>
<td>dibromochloromethane</td>
<td>1.1 mg/m³</td>
</tr>
<tr>
<td>76-13-1</td>
<td>1,1,2-trichlorotrifluoroethane</td>
<td>1,250 ppm</td>
</tr>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
<td>200 ppm</td>
</tr>
<tr>
<td>127-18-4</td>
<td>tetrachloroethylene</td>
<td>35 ppm</td>
</tr>
<tr>
<td>79-01-6</td>
<td>trichloroethylene</td>
<td>130 ppm</td>
</tr>
<tr>
<td>75-69-4</td>
<td>trichlorofluoromethane</td>
<td>91 ppm</td>
</tr>
<tr>
<td>71-55-6</td>
<td>1,1,1-trichloroethane</td>
<td>230 ppm</td>
</tr>
</tbody>
</table>

**PAC-2:**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>methanol</td>
<td>2,100 ppm</td>
</tr>
<tr>
<td>156-59-2</td>
<td>cis-dichloroethylene</td>
<td>500 ppm</td>
</tr>
<tr>
<td>156-60-5</td>
<td>trans-dichloroethylene</td>
<td>1,000 ppm</td>
</tr>
<tr>
<td>75-34-3</td>
<td>1,1-dichloroethane</td>
<td>670 ppm</td>
</tr>
<tr>
<td>71-43-2</td>
<td>benzene</td>
<td>800 ppm</td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>1100 ppm*</td>
</tr>
<tr>
<td>98-82-8</td>
<td>cumene</td>
<td>300 ppm</td>
</tr>
<tr>
<td>108-38-3</td>
<td>m-xylene</td>
<td>920 ppm</td>
</tr>
<tr>
<td>103-65-1</td>
<td>propylbenzene</td>
<td>41 ppm</td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>560 ppm</td>
</tr>
<tr>
<td>526-73-8</td>
<td>1,2,3-trimethylbenzene</td>
<td>360 ppm</td>
</tr>
<tr>
<td>95-63-6</td>
<td>1,2,4-trimethylbenzene</td>
<td>360 ppm</td>
</tr>
<tr>
<td>108-67-8</td>
<td>mesitylene</td>
<td>360 ppm</td>
</tr>
<tr>
<td>611-14-3</td>
<td>2-ethyltoluene</td>
<td>220 mg/m³</td>
</tr>
<tr>
<td>75-27-4</td>
<td>bromodichloromethane</td>
<td>14 mg/m³</td>
</tr>
<tr>
<td>75-25-2</td>
<td>bromoform</td>
<td>6.8 ppm</td>
</tr>
<tr>
<td>56-23-5</td>
<td>carbon tetrachloride</td>
<td>13 ppm</td>
</tr>
<tr>
<td>67-66-3</td>
<td>trichloromethane</td>
<td>64 ppm</td>
</tr>
<tr>
<td>124-48-1</td>
<td>dibromochloromethane</td>
<td>12 mg/m³</td>
</tr>
<tr>
<td>76-13-1</td>
<td>1,1,2-trichlorotrifluoroethane</td>
<td>3,900 ppm</td>
</tr>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
<td>560 ppm</td>
</tr>
<tr>
<td>127-18-4</td>
<td>tetrachloroethylene</td>
<td>230 ppm</td>
</tr>
<tr>
<td>79-01-6</td>
<td>trichloroethylene</td>
<td>450 ppm</td>
</tr>
<tr>
<td>75-69-4</td>
<td>trichlorofluoromethane</td>
<td>1,000 ppm</td>
</tr>
<tr>
<td>71-55-6</td>
<td>1,1,1-trichloroethane</td>
<td>600 ppm</td>
</tr>
</tbody>
</table>

**PAC-3:**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>methanol</td>
<td>7200 ppm*</td>
</tr>
<tr>
<td>156-59-2</td>
<td>cis-dichloroethylene</td>
<td>850 ppm</td>
</tr>
<tr>
<td>156-60-5</td>
<td>trans-dichloroethylene</td>
<td>1,700 ppm</td>
</tr>
<tr>
<td>75-34-3</td>
<td>1,1-dichloroethane</td>
<td>4,000 ppm</td>
</tr>
<tr>
<td>71-43-2</td>
<td>benzene</td>
<td>4000 ppm*</td>
</tr>
<tr>
<td>100-41-4</td>
<td>ethylbenzene</td>
<td>1800 ppm*</td>
</tr>
</tbody>
</table>

(Contd. on page 5)
Trade name: Custom Standard

<table>
<thead>
<tr>
<th>Chemical Code</th>
<th>Chemical Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>98-82-8</td>
<td>cumene</td>
<td>730 ppm</td>
</tr>
<tr>
<td>108-38-3</td>
<td>m-xylene</td>
<td>2500* ppm</td>
</tr>
<tr>
<td>103-65-1</td>
<td>propylbenzene</td>
<td>240 ppm</td>
</tr>
<tr>
<td>108-88-3</td>
<td>toluene</td>
<td>3700* ppm</td>
</tr>
<tr>
<td>526-73-8</td>
<td>1,2,3-trimethylbenzene</td>
<td>480 ppm</td>
</tr>
<tr>
<td>95-63-6</td>
<td>1,2,4-trimethylbenzene</td>
<td>480 ppm</td>
</tr>
<tr>
<td>108-67-8</td>
<td>mesitylene</td>
<td>480 ppm</td>
</tr>
<tr>
<td>611-14-3</td>
<td>2-ethyltoluene</td>
<td>1,300 mg/m³</td>
</tr>
<tr>
<td>75-27-4</td>
<td>bromodichloromethane</td>
<td>85 mg/m³</td>
</tr>
<tr>
<td>75-25-2</td>
<td>bromoform</td>
<td>41 ppm</td>
</tr>
<tr>
<td>56-23-5</td>
<td>carbon tetrachloride</td>
<td>340 ppm</td>
</tr>
<tr>
<td>67-66-3</td>
<td>trichloromethane</td>
<td>3,200 ppm</td>
</tr>
<tr>
<td>124-48-1</td>
<td>dibromochloromethane</td>
<td>73 mg/m³</td>
</tr>
<tr>
<td>76-13-1</td>
<td>1,1,2-trichlorotrifluoroethane</td>
<td>4,500 ppm</td>
</tr>
<tr>
<td>75-09-2</td>
<td>dichloromethane</td>
<td>6,900 ppm</td>
</tr>
<tr>
<td>127-18-4</td>
<td>tetrachloroethylene</td>
<td>1,200 ppm</td>
</tr>
<tr>
<td>79-01-6</td>
<td>trichloroethylene</td>
<td>3,800 ppm</td>
</tr>
<tr>
<td>75-69-4</td>
<td>trichlorofluoromethane</td>
<td>10,000 ppm</td>
</tr>
<tr>
<td>71-55-6</td>
<td>1,1,1-trichloroethane</td>
<td>4,200 ppm</td>
</tr>
</tbody>
</table>

7 Handling and storage

· Handling:
· Precautions for safe handling
  Ensure good ventilation/exhaustion at the workplace.
  Open and handle receptacle with care.
· Information about protection against explosions and fires:
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.
  Keep respiratory protective device available.
· Conditions for safe storage, including any incompatibilities
· Storage:
  · Requirements to be met by storerooms and receptacles: Store in a cool location.
  · Information about storage in one common storage facility: Not required.
· Further information about storage conditions:
  Keep receptacle tightly sealed.
  Store in cool, dry conditions in well sealed receptacles.
· 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

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1 methanol</td>
</tr>
<tr>
<td>PEL Long-term value: 260 mg/m³, 200 ppm</td>
</tr>
<tr>
<td>REL Short-term value: 325 mg/m³, 250 ppm</td>
</tr>
<tr>
<td>Long-term value: 260 mg/m³, 200 ppm</td>
</tr>
<tr>
<td>Skin</td>
</tr>
<tr>
<td>TLV Short-term value: 328 mg/m³, 250 ppm</td>
</tr>
<tr>
<td>Long-term value: 262 mg/m³, 200 ppm</td>
</tr>
<tr>
<td>Skin; BEI</td>
</tr>
</tbody>
</table>

· Ingredients with biological limit values:

<table>
<thead>
<tr>
<th>67-56-1 methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI 15 mg/L</td>
</tr>
<tr>
<td>Medium: urine</td>
</tr>
<tr>
<td>Time: end of shift</td>
</tr>
<tr>
<td>Parameter: Methanol (background, 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.
Store protective clothing separately.

· 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:

Tightly sealed goggles
### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - **Form:** Fluid
    - **Color:** According to product specification
  - **Odor:** Characteristic
  - **Odor threshold:** Not determined.
  - **pH-value:** Not determined.

- **Change in condition**
  - **Melting point/Melting range:** -98 °C (-144.4 °F)
  - **Boiling point/Boiling range:** 64.7 °C (148.5 °F)

- **Flash point:** 9 °C (48.2 °F)

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

- **Ignition temperature:** 455 °C (851 °F)

- **Decomposition temperature:** Not determined.

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

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

- **Explosion limits:**
  - **Lower:** 5.5 Vol %
  - **Upper:** 44 Vol %

- **Vapor pressure at 20 °C (68 °F):** 100 hPa (75 mm Hg)

- **Density at 20 °C (68 °F):** 0.808 g/cm³ (6.74276 lbs/gal)
  - **Relative density:** Not determined.
  - **Vapor density:** Not determined.
  - **Evaporation rate:** Not determined.

- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.

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

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

- **Solvent content:**
  - **Organic solvents:** 99.5 %
  - **VOC content:**
    - **99.30 %**
    - **802.4 g/l / 6.70 lb/gl**

- **Solids content:** 0.3 %

- **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:
      - ATE (Acute Toxicity Estimate)
        - Inhalative: LC50/4 h = 3.06 mg/L
      - 67-56-1 methanol
        - Oral LD50 = 5,628 mg/kg (rat)
        - Dermal LD50 = 15,800 mg/kg (rabbit)
      - 71-43-2 benzene
        - Oral LD50 = 3,340 mg/kg (rat)
        - Dermal LD50 = 48 mg/kg (mouse)
        - >8,260 mg/kg (rabbit)
        - Inhalative LC50/4 h = 9,980 mg/L (mouse)
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: No irritating effect.
    - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    - The product shows the following dangers according to internally approved calculation methods for preparations:
      - Toxic
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer)
      - benzene 1
      - ethylbenzene 2B
      - cumene 2B
      - m-xylene 3
      - toluene 3
      - o-xylene 3
      - bromodichloromethane 2B
      - bromoform 3
      - carbon tetrachloride 2B
      - trichloromethane 2B
      - dibromochloromethane 3
      - dichloromethane 2A
      - tetrachloroethylene 2A
      - trichloroethylene 1

(Contd. on page 9)
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:** Not known to be hazardous to 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**
  - UN1230
- **DOT, IMDG, IATA**
- **UN proper shipping name**
  - Methanol solution
- **DOT**
- **IMDG, IATA**
  - METHANOL solution

(Contd. on page 10)
### Transport hazard class(es)

**DOT**
- **Class:** 3 Flammable liquids
- **Label:** 3, 6.1

**IMDG**
- **Class:** 3 Flammable liquids
- **Label:** 3/6.1

**IATA**
- **Class:** 3 Flammable liquids
- **Label:** 3 (6.1)

### Packing group
- **DOT, IMDG, IATA:** II

### Environmental hazards:
- Not applicable.

### Special precautions for user
- **Danger code (Kemler):** Warning: Flammable liquids 336
- **EMS Number:** F-E, S-D
- **Stowage Category:** B
- **Stowage Code:** SW2 Clear of living quarters.

### 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: 1 L
    - On cargo aircraft only: 60 L

- **IMDG**
  - **Limited quantities (LQ):** 1L
  - **Excepted quantities (EQ):** Code: E2
    - Maximum net quantity per inner packaging: 30 ml
    - Maximum net quantity per outer packaging: 500 ml

- **UN "Model Regulation":**
  - UN 1230 METHANOL SOLUTION, 3 (6.1), II
15 Regulatory information

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

- Section 355 (extremely hazardous substances):
  - 75-34-3 1,1-dichloroethane
  - 67-66-3 trichloromethane

- Section 313 (Specific toxic chemical listings):
  - 67-56-1 methanol
  - 75-34-3 1,1-dichloroethane
  - 71-43-2 benzene
  - 100-41-4 ethylbenzene
  - 98-82-8 cumene
  - 108-38-3 m-xylene
  - 108-88-3 toluene
  - 95-47-6 o-xylene
  - 95-63-6 1,2,4-trimethylbenzene
  - 75-27-4 bromodichloromethane
  - 75-25-2 bromoform
  - 56-23-5 carbon tetrachloride
  - 67-66-3 trichloromethane
  - 76-13-1 1,1,2-trichlorotrifluoroethane
  - 75-09-2 dichloromethane
  - 127-18-4 tetrachloroethylene
  - 79-01-6 trichloroethylene
  - 75-69-4 trichlorofluoromethane
  - 71-55-6 1,1,1-trichloroethane

- TSCA (Toxic Substances Control Act):
  - 67-56-1 methanol
  - 156-59-2 cis-dichloroethylene
  - 156-60-5 trans-dichloroethylene
  - 75-34-3 1,1-dichloroethane
  - 71-43-2 benzene
  - 100-41-4 ethylbenzene
  - 98-82-8 cumene
  - 108-38-3 m-xylene
  - 103-65-1 propylbenzene
  - 108-88-3 toluene
  - 95-47-6 o-xylene
  - 526-73-8 1,2,3-trimethylbenzene
  - 95-63-6 1,2,4-trimethylbenzene
  - 108-67-8 mesitylene
  - 611-14-3 2-ethyltoluene
75-27-4  bromodichloromethane  
75-25-2  bromoform  
56-23-5  carbon tetrachloride  
67-66-3  trichloromethane  
124-48-1  dibromochloromethane  
76-13-1  1,1,2-trichlorotrifluoroethane  
75-09-2  dichloromethane  
127-18-4  tetrachloroethylene  
79-01-6  trichloroethylene  
75-69-4  trichlorofluoromethane  
71-55-6  1,1,1-trichloroethane

### Proposition 65

#### Chemicals known to cause cancer:
- 75-34-3  1,1-dichloroethane  
- 71-43-2  benzene  
- 100-41-4  ethylbenzene  
- 98-82-8  cumene  
- 75-27-4  bromodichloromethane  
- 75-25-2  bromoform  
- 56-23-5  carbon tetrachloride  
- 67-66-3  trichloromethane  
- 75-09-2  dichloromethane  
- 127-18-4  tetrachloroethylene  
- 79-01-6  trichloroethylene

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

#### Chemicals known to cause reproductive toxicity for males:
- 71-43-2  benzene  
- 79-01-6  trichloroethylene

#### Chemicals known to cause developmental toxicity:
- 67-56-1  methanol  
- 71-43-2  benzene  
- 108-88-3  toluene  
- 67-66-3  trichloromethane  
- 79-01-6  trichloroethylene

#### Carcinogenic categories

**EPA (Environmental Protection Agency)**
- 156-59-2  cis-dichloroethylene  
- 156-60-5  trans-dichloroethylene  
- 75-34-3  1,1-dichloroethane  
- 71-43-2  benzene  
- 100-41-4  ethylbenzene
### TLV (Threshold Limit Value established by ACGIH)

<table>
<thead>
<tr>
<th>Substance</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-34-3 1,1-dichloroethane</td>
<td>A4</td>
</tr>
<tr>
<td>71-43-2 benzene</td>
<td>A1</td>
</tr>
<tr>
<td>100-41-4 ethylbenzene</td>
<td>A3</td>
</tr>
<tr>
<td>108-38-3 m-xylene</td>
<td>A4</td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>A4</td>
</tr>
<tr>
<td>95-47-6 o-xylene</td>
<td>A4</td>
</tr>
<tr>
<td>75-25-2 bromoform</td>
<td>A3</td>
</tr>
<tr>
<td>56-23-5 carbon tetrachloride</td>
<td>A2</td>
</tr>
<tr>
<td>67-66-3 trichloromethane</td>
<td>A3</td>
</tr>
<tr>
<td>76-13-1 1,1,2-trichlorotrifluoroethane</td>
<td>A4</td>
</tr>
<tr>
<td>75-09-2 dichloromethane</td>
<td>A3</td>
</tr>
<tr>
<td>127-18-4 tetrachloroethylene</td>
<td>A3</td>
</tr>
<tr>
<td>79-01-6 trichloroethylene</td>
<td>A2</td>
</tr>
<tr>
<td>75-69-4 trichlorofluoromethane</td>
<td>A4</td>
</tr>
<tr>
<td>71-55-6 1,1,1-trichloroethane</td>
<td>A4</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>71-43-2 benzene</td>
<td>CaH</td>
</tr>
<tr>
<td>56-23-5 carbon tetrachloride</td>
<td></td>
</tr>
<tr>
<td>67-66-3 trichloromethane</td>
<td></td>
</tr>
<tr>
<td>76-13-1 1,1,2-trichlorotrifluoroethane</td>
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<td>127-18-4 tetrachloroethylene</td>
<td></td>
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<tr>
<td>79-01-6 trichloroethylene</td>
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<tr>
<td>75-69-4 trichlorofluoromethane</td>
<td></td>
</tr>
<tr>
<td>71-55-6 1,1,1-trichloroethane</td>
<td></td>
</tr>
</tbody>
</table>

### GHS label elements

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

(Contd. on page 14)
Hazard pictograms

GHS02  GHS06  GHS08

Signal word Danger

Hazard-determining components of labeling:
methanol

Hazard statements
Highly flammable liquid and vapor.
Toxic if inhaled.
Causes damage to organs.

Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
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.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Specific treatment (see on this label).
In case of fire: Use for extinction: CO2, powder or water spray.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
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

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
Date of preparation / last revision 07/18/2018 / 2

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)
<table>
<thead>
<tr>
<th>Trade name: Custom Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50: Lethal concentration, 50 percent</td>
</tr>
<tr>
<td>LD50: Lethal dose, 50 percent</td>
</tr>
<tr>
<td>PBT: Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>vPvB: very Persistent and very Bioaccumulative</td>
</tr>
<tr>
<td>NIOSH: National Institute for Occupational Safety</td>
</tr>
<tr>
<td>OSHA: Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>TLV: Threshold Limit Value</td>
</tr>
<tr>
<td>PEL: Permissible Exposure Limit</td>
</tr>
<tr>
<td>REL: Recommended Exposure Limit</td>
</tr>
<tr>
<td>BEI: Biological Exposure Limit</td>
</tr>
<tr>
<td>Flam. Liq. 2: Flammable liquids – Category 2</td>
</tr>
<tr>
<td>Acute Tox. 3: Acute toxicity – Category 3</td>
</tr>
<tr>
<td>STOT SE 1: Specific target organ toxicity (single exposure) – Category 1</td>
</tr>
</tbody>
</table>

* Data compared to the previous version altered.