1. Product and company identification

- **Product name**: Gradient Sample Agilent Part Number 01080-68703
- **Material uses**: Analytical chemistry. 2x0.5 ml. ampoules
- **Supplier/Manufacturer**: Agilent Technologies, Inc.
  Logistics Center - Americas
  500 Ships Landing Way
  New Castle, Delaware  19720
- **Part No.**: 01080-68703
- **Validation date**: 11/3/2010
- **In case of emergency**:
  1-302-633-8777 1-877-4 Agilent (Information Telephone Number)

2. Hazards identification

- **Physical state**: Liquid.
- **Odor**: Slight
- **Emergency overview**
  - **Signal word**: DANGER!
  - **Hazard statements**: FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF INHALED. HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY CAUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CANCER HAZARD - CAN CAUSE CANCER. BIRTH DEFECT HAZARD - CAN CAUSE BIRTH DEFECTS. DEVELOPMENTAL HAZARD - CAN CAUSE ADVERSE DEVELOPMENTAL EFFECTS.

- **Precautions**: Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Avoid exposure during pregnancy. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

- **Routes of entry**: Dermal contact. Eye contact. Inhalation. Ingestion.
- **Potential acute health effects**
  - **Inhalation**: Very toxic by inhalation. Irritating to respiratory system.
  - **Ingestion**: Toxic if swallowed.
  - **Skin**: Toxic in contact with skin. Moderately irritating to the skin.
  - **Eyes**: Irritating to eyes.

- **Potential chronic health effects**
  - **Chronic effects**: Contains material that may cause target organ damage, based on animal data. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
  - **Carcinogenicity**: Can cause cancer. Risk of cancer depends on duration and level of exposure.
  - **Mutagenicity**: No known significant effects or critical hazards.
  - **Teratogenicity**: Can cause birth defects.
  - **Developmental effects**: Can cause developmental abnormalities.
  - **Fertility effects**: No known significant effects or critical hazards.
  - **Target organs**: Contains material which may cause damage to the following organs: gastrointestinal tract, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

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2. Hazards identification

Inhalation: Adverse symptoms may include the following:
- respiratory tract irritation
- coughing
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

Ingestion: Adverse symptoms may include the following:
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

Skin: Adverse symptoms may include the following:
- irritation
- redness
- dryness
- cracking
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

Eyes: Adverse symptoms may include the following:
- pain or irritation
- watering
- redness
- reduced fetal weight
- increase in fetal deaths
- skeletal malformations

Medical conditions aggravated by over-exposure: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>60 - 100</td>
</tr>
<tr>
<td>bis(2-Ethylhexyl) phthalate</td>
<td>117-81-7</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Diethyl phthalate</td>
<td>84-66-2</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Inhalation: Call medical doctor or poison control center immediately. Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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4. First aid measures

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**Notes to physician**: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

**Flammability of the product**: Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

**Extinguishing media**

**Suitable**: Use dry chemical, CO\(_2\), water spray (fog) or foam.

**Not suitable**: Do not use water jet.

**Special exposure hazards**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Hazardous thermal decomposition products**: Decomposition products may include the following materials:
- Carbon dioxide
- Carbon monoxide

**Special protective equipment for fire-fighters**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

**Personal precautions**: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions**: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods for cleaning up**: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

**Handling**: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can

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7. Handling and storage

- Do not reuse container.

**Storage**

- Store in accordance with local regulations. Store in a segregated and approved area.
- Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>List name</th>
<th>TWA (8 hours)</th>
<th>STEL (15 mins)</th>
<th>Ceiling</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
<td>Other</td>
</tr>
<tr>
<td>Methanol</td>
<td>US ACGIH 1/2009</td>
<td>200</td>
<td>262</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>AB 4/2009</td>
<td>200</td>
<td>262</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>BC 10/2009</td>
<td>200</td>
<td>-</td>
<td>-</td>
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<tr>
<td></td>
<td>ON 8/2008</td>
<td>200</td>
<td>260</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>QC 6/2008</td>
<td>200</td>
<td>262</td>
<td>-</td>
</tr>
<tr>
<td>Bis(2-Ethylhexyl) phthalate</td>
<td>US ACGIH 1/2009</td>
<td>-</td>
<td>5</td>
<td>-</td>
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<td>AB 4/2009</td>
<td>-</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>BC 10/2009</td>
<td>-</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>ON 8/2008</td>
<td>-</td>
<td>3</td>
<td>-</td>
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<tr>
<td></td>
<td>QC 6/2008</td>
<td>-</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Diethyl phthalate</td>
<td>US ACGIH 1/2009</td>
<td>-</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>AB 4/2009</td>
<td>-</td>
<td>5</td>
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<td>BC 10/2009</td>
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<td>-</td>
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<tr>
<td></td>
<td>ON 8/2008</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td></td>
<td>QC 6/2008</td>
<td>-</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>


**Consult local authorities for acceptable exposure limits.**

**Recommended monitoring procedures**

- If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures**

- Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Hygiene measures**

- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal protection**

**Respiratory**

- Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hands**

- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eyes**

- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

**Skin**

- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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8. Exposure controls/personal protection

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Other protection: Not available.

9. Physical and chemical properties

Physical state: Liquid.
Flash point: Closed cup: 12°C (53.6°F) [Setaflash.]
Auto-ignition temperature: 464°C (867.2°F)
Flammable limits: Lower: 6%
Upper: >13%
Color: Not available.
Odor: Slight
pH: Not available.
Boiling/condensation point: 64.5°C (148.1°F)
Melting/freezing point: -97.8°C (-144°F)
Specific gravity: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Odor threshold: Not available.
Evaporation rate: Not available.
Solubility: Easily soluble in the following materials: cold water and hot water.

10. Stability and reactivity

Chemical stability: The product is stable.
Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Materials to avoid: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>LC50 Inhalation Gas</td>
<td>Rat</td>
<td>64000 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>15800 mg/kg</td>
<td>-</td>
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<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>5600 mg/kg</td>
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<tr>
<td>bis(2-Ethylhexyl) phthalate</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>25 g/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>30 g/kg</td>
<td>-</td>
</tr>
<tr>
<td>Diethyl phthalate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>8600 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Chronic toxicity

Conclusion/Summary: Not available.

Irritation/Corrosion

Conclusion/Summary: Not available.

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11. Toxicological information

**Sensitizer**
Concentration/Summary: Not available.

**Carcinogenicity**
Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>EPA</th>
<th>NIOSH</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>bis(2-Ethylhexyl) phthalate</td>
<td>A3</td>
<td>3</td>
<td>-</td>
<td>+</td>
<td>Possible</td>
<td>-</td>
</tr>
</tbody>
</table>

**Mutagenicity**
Concentration/Summary: Not available.

**Teratogenicity**
Concentration/Summary: Not available.

**Reproductive toxicity**
Concentration/Summary: Not available.

**Other adverse symptoms**
: Adverse symptoms may include the following: redness, blurred or double vision. Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage.

12. Ecological information

**Ecotoxicity**
: No known significant effects or critical hazards.

**Aquatic ecotoxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>Acute LC50 2500000 ug/L Marine water</td>
<td>Crustaceans - Crangon crangon - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3289 to 4395 mg/L Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate - &lt;24 hours</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt;100000 ug/L Fresh water</td>
<td>Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g</td>
<td>96 hours</td>
</tr>
<tr>
<td>bis(2-Ethylhexyl) phthalate</td>
<td>Acute EC50 133 ug/L Fresh water</td>
<td>Daphnia - Daphnia pulex - Neonate - &lt;24 hours</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 &gt;160 ug/L Fresh water</td>
<td>Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 29 to 40 mm</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC &lt;1 mg/L Fresh water</td>
<td>Daphnia - Daphnia magna - &lt;24 hours</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC &gt;300 ug/L Fresh water</td>
<td>Fish - Gasterosteus aculeatus - 4 to 5 weeks</td>
<td>96 hours</td>
</tr>
<tr>
<td>Diethyl phthalate</td>
<td>Acute LC50 9 to 18 mg/L Marine water</td>
<td>Crustaceans - Acartia tonsa - Adult - 10 to 12 days</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 56470 ug/L Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate - &lt;24 hours</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 12000 ug/L Fresh water</td>
<td>Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling) - 39 to 62 mm</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 10000 ug/L Fresh water</td>
<td>Daphnia - Daphnia magna - &lt;=24 hours</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 1650 ug/L Fresh water</td>
<td>Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling) - 29 to 40 mm</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

**Partition coefficient: n-octanol/water**
: Not available.

**Other adverse effects**
: No known significant effects or critical hazards.
13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

RCRA classification: F003, D001, U154

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

<table>
<thead>
<tr>
<th>Regulatory information</th>
<th>UN number</th>
<th>Proper shipping name</th>
<th>Classes</th>
<th>PG*</th>
<th>Label</th>
<th>Additional information</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>UN1230</td>
<td>METHANOL solution</td>
<td>3 (6.1)</td>
<td>II</td>
<td></td>
<td>Explosive Limit and Limited Quantity Index 1</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>Passenger Carrying Road or Rail Index 1</td>
</tr>
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<td>Special provisions 43</td>
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<tr>
<td>IMDG</td>
<td>UN1230</td>
<td>METHANOL solution</td>
<td>3 (6.1)</td>
<td>II</td>
<td></td>
<td>Emergency schedules (EmS) F-E, S-D</td>
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<tr>
<td>IATA</td>
<td>UN1230</td>
<td>Methanol solution</td>
<td>3 (6.1)</td>
<td>II</td>
<td></td>
<td>Passenger and Cargo Aircraft</td>
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14. Transport information

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<tr>
<td>Remarks</td>
</tr>
<tr>
<td>Excepted Quantity A44</td>
</tr>
</tbody>
</table>

15. Regulatory information

**WHMIS (Canada)**
- Class B-2: Flammable liquid
- Class D-1B: Material causing immediate and serious toxic effects (Toxic).
- Class D-2A: Material causing other toxic effects (Very toxic).
- Class D-2B: Material causing other toxic effects (Toxic).

**Canadian lists**
- **Canadian NPRI**
  - The following components are listed: Methanol
- **CEPA Toxic substances**
  - The following components are listed: Bis(2-ethylhexyl)phthalate
- **Canada inventory**
  - All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. Other information

**Label requirements**
- FLAMMABLE LIQUID AND VAPOR. MAY BE FATAL IF INHALED. HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY CAUSE SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CANCER HAZARD - CAN CAUSE CANCER. BIRTH DEFECT HAZARD - CAN CAUSE BIRTH DEFECTS. DEVELOPMENTAL HAZARD - CAN CAUSE ADVERSE DEVELOPMENTAL EFFECTS.

**Date of issue**
- 11/3/2010

**Date of previous issue**
- No previous validation.

**Version**
- 1

Indicates information that has changed from previously issued version.

**Notice to reader**
Disclaimer: 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.