### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
  - **Product name:** Ethanol 300 mg/dL Standard (10 x 1mL)
  - **Part number:** 5190-9762

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  
  No further relevant information available.

- **Application of the substance / the mixture**
  
  Reference material for laboratory use only

- **Manufacturer/Supplier:**
  
  Agilent Technologies Manufacturing GmbH & Co. KG
  
  Hewlett-Packard-Str. 8
  
  76337 Waldbronn
  
  Germany

- **Further information obtainable from:**
  
  e-mail: pdl-msds_author@agilent.com

- **1.4 Emergency telephone number:**
  
  CHEMTREC®: +(44)-870-8200418

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
  
  Classification according to Regulation (EC) No 1272/2008
  
  The product is not classified according to the CLP regulation.

- **2.2 Label elements**
  
  Labelling according to Regulation (EC) No 1272/2008 Not applicable

- **Signal word**
  
  Not applicable

- **Hazard statements**
  
  Not applicable

- **2.3 Other hazards**
  
  Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
  
  Description: Aqueous solution.

- **Dangerous components:**
  
<table>
<thead>
<tr>
<th>CAS: 64-17-5</th>
<th>Ethanol</th>
<th>Flam. Liq. 2, H225</th>
<th>&lt; 1.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 200-578-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTECS: KQ6300000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
  
  **After inhalation:** Supply fresh air; consult doctor in case of complaints.
Product name: Ethanol 300 mg/dL Standard (10 x 1mL)

- 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: Rinse mouth. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  - Suitable extinguishing agents:
    CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture
  - Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
  - Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  - Wear protective clothing.
- 6.2 Environmental precautions:
  - Dilute with plenty of water.
- 6.3 Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 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.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
  - Store in cool, dry place in tightly closed receptacles.
- 7.2 Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles:
      - Store in a cool location.
      - Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.
      - Store only in the original receptacle.
      - Keep container in a well-ventilated place. Keep away from sources of ignition and heat.
    - Information about storage in one common storage facility:
      - Store away from foodstuffs.
- 7.3 Specific end use(s)
  - No further relevant information available.
SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: Lists used were valid at the time of SDS preparation.

- 8.2 Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
  - Respiratory protection: Not required.
  - Protection of hands:
    Chemical-resistant, impervious gloves with an approved standards should be worn at all times.
The selection of the glove material is based on the penetration times, rates of diffusion and its degradation

  Protective gloves

  - Material of gloves Nitrile rubber, NBR
  - Penetration time of glove material
    The protection time of the gloves can not be accurately estimated for mixtures consisting of several substances
    Refer to and observe manufacturers break through times of the protective gloves.
  - Eye protection: Safety glasses

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
  - Appearance:
    Form: Liquid
    Colour: Colourless
  - Odour: Odourless
  - Odour threshold: Not determined.
  - pH-value: Not determined.

- Change in condition
  Melting point/Melting range: Not determined.
  Boiling point/Boiling range: 100 °C
  Flash point: Not applicable.
**Product name:** Ethanol 300 mg/dL Standard (10 x 1mL)

(Contd. from page 3)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Flammability (solid, gaseous)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Ignition temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>· Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Self-igniting</td>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>· Danger of explosion</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Explosion limits</td>
<td></td>
</tr>
<tr>
<td>· Lower:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Upper:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Vapour pressure at 20 °C</td>
<td>23 hPa</td>
</tr>
<tr>
<td>· Density at 20 °C</td>
<td>0.99916 g/cm³</td>
</tr>
<tr>
<td>· Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Solubility in / Miscibility with water</td>
<td>Fully miscible.</td>
</tr>
<tr>
<td>· Partition coefficient (n-octanol/water)</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Viscosity</td>
<td></td>
</tr>
<tr>
<td>· Dynamic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· 9.2 Other information</td>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** Stable under normal conditions.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** Formation of toxic gases is possible during heating or in case of fire.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid Heat.**
- **10.5 Incompatible materials:** Strong oxidizing agents.
- **10.6 Hazardous decomposition products:** Formation of toxic gases is possible during heating or in case of fire.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
Product name: Ethanol 300 mg/dL Standard (10 x 1mL)

(Contd. from page 4)

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes: Generally not hazardous for water
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation
  Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
  - European waste catalogue
  Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- Uncleaned packaging:
  - Recommendation: Dispose of in accordance with national regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, ADN, IMDG, IATA Not applicable
  - ADR, ADN, IMDG, IATA Not applicable
- 14.3 Transport hazard class(es)
  - ADR, ADN, IMDG, IATA Not applicable
  - Class Not applicable

(Contd. on page 6)
**Product name:** Ethanol 300 mg/dL Standard (10 x 1mL)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>14.4 Packing group</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>14.5 Environmental hazards:</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>14.6 Special precautions for user</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</strong></td>
<td>Not applicable.</td>
</tr>
<tr>
<td><strong>Transport/Additional information:</strong></td>
<td>Not dangerous according to the above specifications.</td>
</tr>
<tr>
<td><strong>UN &quot;Model Regulation&quot;:</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**SECTION 15: Regulatory information**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Philippines Inventory of Chemicals and Chemical Substances</strong></td>
<td></td>
</tr>
<tr>
<td>7732-18-5 Water</td>
<td></td>
</tr>
<tr>
<td><strong>Australian Inventory of Chemical Substances</strong></td>
<td></td>
</tr>
<tr>
<td>7732-18-5 Water</td>
<td></td>
</tr>
<tr>
<td><strong>Standard for the Uniform Scheduling of Medicines and Poisons</strong></td>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td><strong>Directive 2012/18/EU</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Named dangerous substances</strong> - ANNEX I</td>
<td>None of the ingredients is listed.</td>
</tr>
<tr>
<td><strong>15.2 Chemical safety assessment:</strong></td>
<td>A Chemical Safety Assessment has not been carried out.</td>
</tr>
</tbody>
</table>

**SECTION 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.

**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
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- 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)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids – Category 2

(Contd. on page 7)
Product name: Ethanol 300 mg/dL Standard (10 x 1mL)

Sources

Data compared to the previous version altered. All sections have been updated.