1 Identification

- Product identifier
  - Trade name: Custom Standard
  - Part number: CUS-3598
- Application of the substance / the mixture Laboratory chemicals

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier: ULTRA Scientific, Inc.
    250 Smith Street
    North Kingstown, RI 02852
    USA
- Information department:
  Telephone: (401) 294-9400
  Fax: (401) 295-2300
  E-mail: regulatory@ultrasci.com
- Emergency telephone number:
  US: (800) 424-9300
  Outside US: (703) 527-3887

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.
  - 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)**
    - Health = 3
    - Fire = 3
    - Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    - Health = *3
    - 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:**
  - 67-56-1 methanol 99.874%

### 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.
Trade name: Custom Standard

· **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.
  · **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.

---

**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.

---

**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
  - 91-57-6 2-methyl-naphthalene 9 mg/m³

  **PAC-2:**
  - 67-56-1 methanol 2,100 ppm
  - 91-57-6 2-methyl-naphthalene 54 mg/m³

  **PAC-3:**
  - 67-56-1 methanol 7200 ppm
  - 91-57-6 2-methyl-naphthalene 320 mg/m³

(Contd. on page 2)
7 Handling and storage

- **Handling:**
  - **Precautions for safe handling:**
    Ensure good ventilation/exhaustion at the workplace.
  - **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**

- **Components with limit values that require monitoring at the workplace:**
  The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
  The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
  At this time, the remaining constituent has no known exposure limits.
  At this time, the other constituents have no known exposure limits.

### 67-56-1 methanol

<table>
<thead>
<tr>
<th>Limit Value</th>
<th>Component</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long-term value</td>
<td>260 mg/m³, 200 ppm</td>
<td>260 mg/m³, 200 ppm</td>
<td>262 mg/m³, 200 ppm</td>
<td></td>
</tr>
<tr>
<td>Short-term value</td>
<td>325 mg/m³, 250 ppm</td>
<td>328 mg/m³, 250 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Ingredients with biological limit values:**

### 67-56-1 methanol

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Limit Value</th>
<th>Medium</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI</td>
<td>15 mg/L</td>
<td>urine</td>
<td>end of shift</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.
Trade name: Custom Standard

(Contd. of page 4)

Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.

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

- **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:**
      - **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 (°F)
    - **Boiling point/Boiling range:** Undetermined.
  - **Flash point:** 9°C (°F)
  - **Flammability (solid, gaseous):** Not applicable.
  - **Ignition temperature:** 455°C (°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 %

(Contd. on page 6)
Trade name: Custom Standard

### 45.2.5

- **Upper:** 44 Vol %
- **Vapor pressure at 20°C (68 °F):** 100 hPa (mm Hg)
- **Density at 20°C (68 °F):** 0.8 g/cm³ (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:** 99.9 %
  - **VOC content:** 99.87 %
    - 998.7 g/l / 8.33 lb/gl
- **Other information:** 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:**
  - **ATE (Acute Toxicity Estimate)**
    - **Inhalative** | LC50/4 h  | 3 mg/L
  - **67-56-1 methanol**
    - **Oral** | LD50 | 5,628 mg/kg (rat)
    - **Dermal** | LD50 | 15,800 mg/kg (rabbit)
- **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
Trade name: Custom Standard

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
- DOT, IMDG, IATA: UN1230
- UN proper shipping name
- DOT: Methanol mixture
- IMDG, IATA: METHANOL mixture
- Transport hazard class(es)
- DOT
  ![Flammable Liquid Symbol]
- Class: 3 Flammable liquids
### 45.2.5 Label

<table>
<thead>
<tr>
<th>IMDG</th>
<th>Class</th>
<th>Label 3, 6.1</th>
</tr>
</thead>
</table>

### IMDG

<table>
<thead>
<tr>
<th>Class</th>
<th>Label</th>
<th>3 Flammable liquids</th>
</tr>
</thead>
</table>

### IATA

<table>
<thead>
<tr>
<th>Class</th>
<th>Label</th>
<th>3 (6.1)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Packing group</th>
<th>DOT, IMDG, IATA</th>
<th>II</th>
</tr>
</thead>
</table>

### Environmental hazards:
Not applicable.

### Special precautions for user

<table>
<thead>
<tr>
<th>Danger code (Kemler):</th>
<th>EMS Number:</th>
<th>Stowage Category</th>
<th>Stowage Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning: Flammable liquids</td>
<td>F-E,S-D</td>
<td>B</td>
<td>SW2 Clear of living quarters.</td>
</tr>
</tbody>
</table>

### Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

### Transport/Additional information:

<table>
<thead>
<tr>
<th>DOT</th>
<th>Quantity limitations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>On passenger aircraft/rail: 1 L</td>
</tr>
<tr>
<td></td>
<td>On cargo aircraft only: 60 L</td>
</tr>
</tbody>
</table>

### IMDG

<table>
<thead>
<tr>
<th>Limited quantities (LQ)</th>
<th>Excepted quantities (EQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1L</td>
<td>Code: E2</td>
</tr>
<tr>
<td>Maximum net quantity per inner packaging: 30 ml</td>
<td>Maximum net quantity per outer packaging: 500 ml</td>
</tr>
</tbody>
</table>

### UN "Model Regulation":
UN 1230 METHANOL MIXTURE, 3 (6.1), II

### 15 Regulatory information

| Safety, health and environmental regulations/legislation specific for the substance or mixture |
| Section 355 (extremely hazardous substances): |
| None of the ingredients is listed. |

| Section 313 (Specific toxic chemical listings): |
| 67-56-1 methanol |
45.2.5  
· TSCA (Toxic Substances Control Act):
  All ingredients are listed.
· Proposition 65
  · Chemicals known to cause cancer:
    None of the ingredients is listed.
  · 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:
  67-56-1 methanol
· Carcinogenic categories
  · EPA (Environmental Protection Agency)
    91-57-6 2-methylnaphthalene I
  · TLV (Threshold Limit Value established by ACGIH)
    91-57-6 2-methylnaphthalene 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).
· 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

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.

· Date of preparation / last revision 08/04/2017 / -

· 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)
  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. Liq. 2: Flammable liquids – Category 2
  Acute Tox. 3: Acute toxicity – Category 3
  STOT SE 1: Specific target organ toxicity (single exposure) – Category 1