<table>
<thead>
<tr>
<th>Product code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3305-0010</td>
<td>GSP Neonatal 17-OH-progesterone kit 3305-0010, 3305-001U</td>
</tr>
</tbody>
</table>

Components:

<table>
<thead>
<tr>
<th>Component Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13806175</td>
<td>17-OHP antiserum stock solution</td>
</tr>
<tr>
<td>13802021</td>
<td>17-OHP assay buffer</td>
</tr>
<tr>
<td>13806734</td>
<td>17-OHP-Eu tracer stock solution</td>
</tr>
</tbody>
</table>
1 Identification

- **Product identifier**
  - **Trade name:** 17-OHP antiserum stock solution
  - **Article number:** 13806175, 13803735
  - **Application of the substance / the mixture**
    - In vitro diagnostics
    - Laboratory chemicals

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** PerkinElmer Wallac Oy
    - P.O. Box 10
    - FI-20101 Turku
    - Finland
  - **Information department:**
    - Product safety department.
    - MSDS_Turku@perkinelmer.com
  - **Emergency telephone number:**
    - CHEMTREC (within U.S.) 800 424-9300
    - CHEMTREC (from outside U.S.) +1-703-572-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - The product is not classified, according to the Globally Harmonized System (GHS).

- **Label elements**
  - **GHS label elements**
    - **Hazard pictograms:** Void
    - **Signal word:** Void
    - **Hazard statements:** Void
  - **Classification system:**
    - **NFPA ratings (scale 0 - 4)**
      - Health = 0
      - Fire = 0
      - Reactivity = 0
    - **HMIS-ratings (scale 0 - 4)**
      - Health = 0
      - Fire = 0
      - 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:** Void

(Contd. on page 2)
4 First-aid measures

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **After eye contact:** Rinse opened eye for several minutes under running water.
  - **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:** Use fire fighting measures that suit the environment.
  - **Special hazards arising from the substance or mixture** No further relevant information available.

- **Advice for firefighters**
  - **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
  - No dangerous substances are released.
  - 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: | 77-86-1 trometamol | 18 mg/m³ |
| | 26628-22-8 sodium azide | 0.026 mg/m³ |
| PAC-2: | 77-86-1 trometamol | 190 mg/m³ |
| | 26628-22-8 sodium azide | 0.29 mg/m³ |
| PAC-3: | 77-86-1 trometamol | 1,200 mg/m³ |
| | 26628-22-8 sodium azide | 5.3 mg/m³ |

7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** No special measures required.
  - **Information about protection against explosions and fires:** No special measures required.

- **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.
Trade name: 17-OHP antiserum stock solution

- Further information about storage conditions: None.
- 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
  The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- Protection of hands:
  The glove material has to be impermeable and resistive 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Goggles recommended during refilling.

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: Undetermined.
  - Boiling point/Boiling range: 100 °C (212 °F)
- Flash point: Not applicable.
- Flammability (solid, gaseous): Not applicable.
- Decomposition temperature: Not determined.
- Auto igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
Trade name: 17-OHP antiserum stock solution

- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.

- **Vapor pressure at 20 °C (68 °F):**
  - 23 hPa (17.3 mm Hg)

- **Density at 20 °C (68 °F):**
  - 1.01 g/cm³ (8.43 lbs/gal)

- **Relative density:**
  - Not determined.

- **Vapor density:**
  - Not determined.

- **Evaporation rate:**
  - Not determined.

- **Solubility in / Miscibility with Water:**
  - Fully miscible.

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

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

- **Solvent content:**
  - Water: 97.8 %
  - VOC content: 0.00 %

- **Solids content:**
  - 0.9 %

- **Other information:**
  - No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
  - No further relevant information available.

- **Chemical stability**
  - No decomposition if used according to specifications.

- **Thermal decomposition / conditions to be avoided:**
  - No dangerous reactions known.

- **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:**
  - **LD/LC50 values that are relevant for classification:**
    - 26628-22-8 sodium azide
      - Oral LD50 27 mg/kg (rat)
      - Dermal LD50 20 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 is not subject to classification according to internally approved calculation methods for preparations:
    - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

(Contd. on page 5)
Trade name: 17-OHP antiserum stock solution

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 hazardous for 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: Smaller quantities can be disposed of with household waste.

- **Uncleaned packagings**:
  - Recommendation: Disposal must be made according to official regulations.

- **Recommended cleansing agent**: Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
  - DOT, ADR, ADN, IMDG, IATA: Void

- **UN proper shipping name**
  - DOT, ADR, ADN, IMDG, IATA: Void

- **Transport hazard class(es)**
  - DOT, ADR, ADN, IMDG, IATA: Void

- **Packing group**
  - DOT, ADR, IMDG, IATA: Void

- **Environmental hazards**
  - Marine pollutant: No

- **Special precautions for user**
  - Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**: Not applicable.
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
      - 26628-22-8 sodium azide
  - Section 313 (Specific toxic chemical listings):
    - 26628-22-8 sodium azide

- TSCA (Toxic Substances Control Act):
  - 7647-14-5 sodium chloride
  - 77-86-1 trometamol
  - 9048-46-8 Albumins, bovine serum
  - 26628-22-8 sodium azide
  - 7732-18-5 water

- 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:
    None of the ingredients is listed.

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.

- TLV (Threshold Limit Value established by ACGIH)
  - 26628-22-8 sodium azide A4

- NIOSH-Ca (National Institute for Occupational Safety and Health)
  - None of the ingredients is listed.

- GHS label elements
  - Hazard pictograms: Void
  - Signal word: Void
  - Hazard statements: Void
  - 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.

- Department issuing SDS: Product safety department.
- Contact: MSDS_Turku@perkinelmer.com
- Date of preparation / last revision: 11/05/2018 / -
- 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

(Contd. on page 7)
Trade name: 17-OHP antiserum stock solution

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
* Data compared to the previous version altered.
1 Identification

- Product identifier
  - Trade name: 17-OHP assay buffer
  - Article number: 13802021, 13803279, 13806812
  - Application of the substance / the mixture
    In vitro diagnostics
    Laboratory chemicals

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    PerkinElmer
    Wallac Oy
    P.O. Box 10
    FI-20101 Turku
    Finland

- Information department:
  Product safety department.
  MSDS_Turku@perkinelmer.com

- Emergency telephone number:
  CHEMTREC (within U.S.) 800 424-9300
  CHEMTREC (from outside U.S.) +1-703-572-3887

2 Hazard(s) identification

- Classification of the substance or mixture
  GHS08 Health hazard
  Carc. 1A  H350  May cause cancer.

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

- Hazard pictograms
  GHS08

- Signal word Danger

- Hazard-determining components of labeling:
  ethanol

- Hazard statements
  May cause cancer.

- Precautionary statements
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Wear protective gloves/protective clothing/eye protection/face protection.
  IF exposed or concerned: Get medical advice/attention.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
  - NFPA ratings (scale 0 - 4)
    Health = 0
    Fire = 0
    Reactivity = 0

(Contd. on page 2)
Trade name: 17-OHP assay buffer

· HMIS-ratings (scale 0 - 4)
  HEALTH: 0  Health = *0
  FIRE: 0  Fire = 0
  REACTIVITY: 0  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:
  64-17-5 ethanol  <1%

4 First-aid measures

· Description of first aid measures
  · After inhalation: Supply fresh air; consult doctor in case of complaints.
  · After skin contact: Generally the product does not irritate the skin.
  · After eye contact: Rinse opened eye for several minutes under running water.
  · 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: Use fire fighting measures that suit the environment.
  · Special hazards arising from the substance or mixture: No further relevant information available.
  · Advice for firefighters
  · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures: Not required.
· Environmental precautions: Dilute with plenty of 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
  No dangerous substances are released.
  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:
    77-86-1 trometamol  18 mg/m³

(Contd. on page 3)
Trade name: 17-OHP assay buffer

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>25322-68-3 Polyethylene glycol</td>
<td>30 mg/m³</td>
</tr>
<tr>
<td>64-17-5 ethanol</td>
<td>1,800 ppm</td>
</tr>
<tr>
<td>26628-22-8 sodium azide</td>
<td>0.026 mg/m³</td>
</tr>
<tr>
<td>10043-52-4 calcium chloride</td>
<td>12 mg/m³</td>
</tr>
</tbody>
</table>

- **PAC-2:**
<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>77-86-1 trometamol</td>
<td>190 mg/m³</td>
</tr>
<tr>
<td>25322-68-3 Polyethylene glycol</td>
<td>1,300 mg/m³</td>
</tr>
<tr>
<td>64-17-5 ethanol</td>
<td>3300* ppm</td>
</tr>
<tr>
<td>26628-22-8 sodium azide</td>
<td>0.29 mg/m³</td>
</tr>
<tr>
<td>10043-52-4 calcium chloride</td>
<td>130 mg/m³</td>
</tr>
</tbody>
</table>

- **PAC-3:**
<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>77-86-1 trometamol</td>
<td>1,200 mg/m³</td>
</tr>
<tr>
<td>25322-68-3 Polyethylene glycol</td>
<td>7,700 mg/m³</td>
</tr>
<tr>
<td>64-17-5 ethanol</td>
<td>15000* ppm</td>
</tr>
<tr>
<td>26628-22-8 sodium azide</td>
<td>5.3 mg/m³</td>
</tr>
<tr>
<td>10043-52-4 calcium chloride</td>
<td>790 mg/m³</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 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.
  - **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:**
    | Substance | Limit Value |
    |-----------|------------|
    | 64-17-5 ethanol | 1900 mg/m³, 1000 ppm |
    |  | Long-term value: 1900 mg/m³, 1000 ppm |
    |  | REL Short-term value: 1880 mg/m³, 1000 ppm |

- **Additional information:** The lists that were valid during the creation were used as basis.
· **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:**

   ![Protective gloves]

   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]

   Tightly sealed goggles

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

   · **General Information**
     
     · **Appearance:**
       Solution

     · **Form:**
       Solution

     · **Color:**
       Red

     · **Odor:**
       Characteristic

     · **Odor threshold:**
       Not determined.

   · **pH-value:**
     Not determined.

   · **Change in condition**
     
     · **Melting point/Melting range:**
       Undetermined.

     · **Boiling point/Boiling range:**
       100 °C (212 °F)

   · **Flash point:**
     Not applicable.

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

   · **Decomposition temperature:**
     Not determined.

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

   · **Danger of explosion:**
     Product does not present an explosion hazard.

   · **Explosion limits:**
     
     · **Lower:**
       Not determined.

     · **Upper:**
       Not determined.

   · **Vapor pressure at 20 °C (68 °F):**
     23 hPa (17.3 mm Hg)

   · **Density:**
     Not determined.

   · **Relative density**
     Not determined.
Trade name: 17-OHP assay buffer

- Vapor density: Not determined.
- Evaporation rate: Not determined.
- Solubility in / Miscibility with Water: Fully miscible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Solvent content:
  - Organic solvents: 0.4 %
  - Water: 97.5 %
  - VOC content: 0.40 %
- Solids content: 0.9 %
- 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:
  - 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:
  - Carcinogenic categories
    - IARC (International Agency for Research on Cancer)
      64-17-5 ethanol 1
      915-67-3 trisodium 3-hydroxy-4-(4'-sulphonatonaphthylazo)naphthalene-2,7-disulphonate 3
    - NTP (National Toxicology Program)
      None of the ingredients is listed.
    - OSHA-Ca (Occupational Safety & Health Administration)
      None of the ingredients is listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: 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.
  - Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- UN-Number
  - DOT, ADR, ADN, IMDG, IATA: Void

- UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA: Void

- Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA: Void

- Packing group
  - DOT, ADR, IMDG, IATA: Void

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Not applicable.

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

- UN "Model Regulation": Void

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances):
      - 26628-22-8 sodium azide
    - Section 313 (Specific toxic chemical listings):
      - 26628-22-8 sodium azide
    - TSCA (Toxic Substances Control Act):
      - 7647-14-5 sodium chloride
      - 77-86-1 trometamol
## Trade name: 17-OHP assay buffer

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td>25322-68-3</td>
<td>Polyethylene glycol</td>
</tr>
<tr>
<td>64-17-5</td>
<td>Ethanol</td>
</tr>
<tr>
<td>9048-46-8</td>
<td>Albumins, bovine serum</td>
</tr>
<tr>
<td>26628-22-8</td>
<td>Sodium azide</td>
</tr>
<tr>
<td>915-67-3</td>
<td>Trisodium 3-hydroxy-4-(4'-sulphonatonaphthylazo)naphthalene-2,7-disulphonate</td>
</tr>
<tr>
<td>9005-66-7</td>
<td>Tween 40</td>
</tr>
<tr>
<td>10043-52-4</td>
<td>Calcium chloride</td>
</tr>
<tr>
<td>7752-18-5</td>
<td>Water</td>
</tr>
</tbody>
</table>

### 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:**
  - 64-17-5 Ethanol
  - 17230-88-5 Danazol

### Carcinogenic categories
- **EPA (Environmental Protection Agency)**
  - None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**
  - 64-17-5 Ethanol A3
  - 26628-22-8 Sodium azide 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
- GHS08

### Signal word
- Danger

### Hazard-determining components of labeling:
- Ethanol

### Hazard statements
- May cause cancer.
- Precautionary statements
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If exposed or concerned: Get medical advice/attention.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

### National regulations:
- Additional classification according to Decree on Hazardous Materials:
  - Carcinogenic hazardous material group III (dangerous).
8.0  

[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

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.

[Department issuing SDS:]
Product safety department.

[Contact:]
MSDS_Turku@perkinelmer.com

[Date of preparation / last revision]
11/05/2018 / -

[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)
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
Carc. 1A: Carcinogenicity – Category 1A

* Data compared to the previous version altered.
1 Identification

- **Product identifier**
  - **Trade name:** 17-OHP-Eu tracer stock solution
  - **Article number:** 13806734
- **Application of the substance / the mixture**
  - *In vitro diagnostics*
  - *Laboratory chemicals*
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** PerkinElmer
    Wallac Oy
    P.O. Box 10
    FI-20101 Turku
    Finland
  - **Information department:**
    Product safety department.
    MSDS_Turku@perkinelmer.com
  - **Emergency telephone number:**
    CHEMTREC (within U.S.) 800 424-9300
    CHEMTREC (from outside U.S.) +1-703-572-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**
  - The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
  - **GHS label elements**
    - **Hazard pictograms** Void
    - **Signal word** Void
    - **Hazard statements** Void
    - **Classification system:**
    - **NFPA ratings (scale 0 - 4)**
      - Health = 0
      - Fire = 0
      - Reactivity = 0
    - **HMIS-ratings (scale 0 - 4)**
      - HEALTH: Health = 0
      - FIRE: Fire = 0
      - REACTIVITY: 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:** Void

(Contd. on page 2)
4 First-aid measures

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **After eye contact:** Rinse opened eye for several minutes under running water.
  - **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:** Use fire fighting measures that suit the environment.
  - **Special hazards arising from the substance or mixture** No further relevant information available.
  - **Advice for firefighters**
    - **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
  - No dangerous substances are released.
  - 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</th>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAC-1</td>
<td>trometamol</td>
<td>18 mg/m³</td>
</tr>
<tr>
<td></td>
<td>sodium azide</td>
<td>0.026 mg/m³</td>
</tr>
<tr>
<td>PAC-2</td>
<td>trometamol</td>
<td>190 mg/m³</td>
</tr>
<tr>
<td></td>
<td>sodium azide</td>
<td>0.29 mg/m³</td>
</tr>
<tr>
<td>PAC-3</td>
<td>trometamol</td>
<td>1,200 mg/m³</td>
</tr>
<tr>
<td></td>
<td>sodium azide</td>
<td>5.3 mg/m³</td>
</tr>
</tbody>
</table>

7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** No special measures required.
  - **Information about protection against explosions and fires:** No special measures required.
- **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.
Trade name: 17-OHP-Eu tracer stock solution

- Further information about storage conditions: None.
- 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 product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: The lists that were valid during the creation were used as basis.
- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      The usual precautionary measures for handling chemicals should be followed.
    - Breathing equipment: Not required.
  - 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: Goggles recommended during refilling.

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: Undetermined.
    - Boiling point/Boiling range: Undetermined.
  - Flash point: Not applicable.
- Flammability (solid, gaseous): Not applicable.
- Decomposition temperature: Not determined.
- Auto igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
8.0

· Explosion limits:
  Lower: Not determined.
  Upper: Not determined.

· Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg)

· Density: Not determined.
· Relative density: Not determined.
· Vapor density: Not determined.
· Evaporation rate: Not determined.

· Solubility in / Miscibility with Water: Fully miscible.

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

· Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.

· Solvent content:
  Water: 98.2 %
  VOC content: 0.00 %

· 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:
    · LD/LC50 values that are relevant for classification:
      26628-22-8 sodium azide
      Oral LD50 27 mg/kg (rat)
      Dermal LD50 20 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 is not subject to classification according to internally approved calculation methods for preparations:
    When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories
  IARC (International Agency for Research on Cancer)
  None of the ingredients is listed.

(Contd. on page 5)
Trade name: 17-OHP-Eu tracer stock solution

- NTP (National Toxicology Program)
  None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)
  None of the ingredients is listed.

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 hazardous for 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: Smaller quantities can be disposed of with household waste.

- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- UN-Number
  - DOT, ADR, ADN, IMDG, IATA: Void

- UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA: Void

- Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA
  - Class: Void

- Packing group
  - DOT, ADR, IMDG, IATA: Void

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Not applicable.

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

- UN "Model Regulation": Void
Trade name: 17-OHP-Eu tracer stock solution

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Sara
  · Section 355 (extremely hazardous substances):
    26628-22-8 sodium azide
  · Section 313 (Specific toxic chemical listings):
    26628-22-8 sodium azide
  · 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:
      None of the ingredients is listed.
  · Carcinogenic categories
    · EPA (Environmental Protection Agency)
      None of the ingredients is listed.
    · TLV (Threshold Limit Value established by ACGIH)
      26628-22-8 sodium azide A4
    · NIOSH-Ca (National Institute for Occupational Safety and Health)
      None of the ingredients is listed.
    · GHS label elements Void
    · Hazard pictograms Void
    · Signal word Void
    · Hazard statements Void
    · 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.

· Department issuing SDS: Product safety department.
· Contact: MSDS_Turku@perkinelmer.com
· Date of preparation / last revision 11/05/2018 / -
· Abbreviations and acronyms:
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  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
Trade name: 17-OHP-Eu tracer stock solution

PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
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