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

1.1 Product identifier

Trade name: Ultima Gold

Article number: 6013329, 6013321, 6013323, 6013326, 6013327

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 Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
PerkinElmer Health Sciences B.V.
Rigaweg 22
9723 TH Groningen
The Netherlands
Phone: 0031 50 5445900
Fax: 0031 50 5445950
www.perkinelmer.com

Further information obtainable from:
Quality Assurance, Environment, Safety & Health (QA/ESH)
SDS.Groningen@perkinelmer.com

1.4 Emergency telephone number:
+31 50 5445971
CHEMTREC: +1 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS08 health hazard

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)
Trade name: Ultima Gold

**Hazard pictograms**

- GHS05
- GHS08
- GHS09

**Signal word** Danger

**Hazard-determining components of labelling:**
- Diisopropyl naphthalene isomers
- Diisooctyl acid phosphate
- 2,2'-iminodiethanol
- Alkylphenol Polyglycolether

**Hazard statements**
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H304 May be fatal if swallowed and enters airways.
- H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/2
- P302+P352 IF ON SKIN: Wash with plenty of water/2
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362 Take off contaminated clothing.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

- **PBT:**
  - 38640-62-9 Diisopropyl naphthalene isomers

- **vPvB:**
  - 38640-62-9 Diisopropyl naphthalene isomers

**SECTION 3: Composition/information on ingredients**

- **3.2 Chemical characterisation: Mixtures**
  - **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>CAS: 38640-62-9</th>
<th>Diisopropyl naphthalene isomers</th>
<th>60-80%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 254-052-6</td>
<td>PBT: vPvB Asp. Tox. 1, H304 Aquatic Chronic 1, H410</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 9016-45-9</th>
<th>Alkylphenol Polyglycolether</th>
<th>10-20%</th>
</tr>
</thead>
<tbody>
<tr>
<td>NLP: 500-024-6</td>
<td>Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 298-07-7</th>
<th>Diisooctyl acid phosphate</th>
<th>2.5-10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 206-056-4</td>
<td>Skin Corr. 1B, H314 Acute Tox. 4, H302</td>
<td></td>
</tr>
</tbody>
</table>
### SECTION 4: First aid measures

**4.1 Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **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.

**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:**
  - Use fire extinguishing methods suitable to surrounding conditions.
  - CO2, powder or water spray. Fight larger fires with water spray.

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

**5.3 Advice for firefighters**

- **Protective equipment:** Wear fully protective suit.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Keep people at a distance and stay on the windward side.
Ensure adequate ventilation

6.2 Environmental precautions:
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/surface or ground 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
No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Store in a cool location.

7.3 Specific end use(s)
No further relevant information available.

SECTION 8: Exposure controls/personal protection

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: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
Respiratory protection: Not necessary if room is well-ventilated.
· 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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

  - Form: Fluid
  - Colour: Colourless
  - Odour: Characteristic

· pH-value at 20 °C (68 °F): 6

· Change in condition

  - Melting point/freezing point: Undetermined.
  - Initial boiling point and boiling range: 290 °C (554 °F)

· Flash point: 152 °C (305.6 °F)

· Ignition temperature: 500 °C (932 °F)

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties:

  Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

  - Lower: 0.4 Vol %
  - Upper: 4.7 Vol %

· Density at 20 °C (68 °F): 0.98 g/cm³ (8.1781 lbs/gal)
Trade name: Ultima Gold

10.1 Reactivity
No further relevant information available.

10.2 Chemical stability
Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
No further relevant information available.

10.5 Incompatible materials
No further relevant information available.

10.6 Hazardous decomposition products
Carbon monoxide

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>ATE (Acute Toxicity Estimates)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral LD50</td>
</tr>
<tr>
<td>Dermal LD50</td>
</tr>
</tbody>
</table>

38640-62-9 Disopropyl naphthalene isomers

Oral LD50 4,000 mg/kg (Rat)

Primary irritant effect:
Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye damage.

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
Suspected of damaging fertility. Suspected of damaging the unborn child.

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
May be fatal if swallowed and enters airways.

12.1 Toxicity
Aquatic toxicity:

9016-45-9 Alkylphenol Polyglycolether
chronic NOEC/ECx >1 mg/l (Alge)
Trade name: Ultima Gold

9016-45-9 Alkylphenol Polyglycolether

· 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.
· Ecotoxicological effects:
  · Remark: Harmful to fish
  · Additional ecological information:
  · General notes:
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  Harmful to aquatic organisms
· 12.5 Results of PBT and vPvB assessment
  · PBT:
    38640-62-9 Diisopropyl naphthalene isomers
  · vPvB:
    38640-62-9 Diisopropyl naphthalene isomers
· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods
  · Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· Uncleaned packaging:
  · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number
  · ADR, IMDG, IATA UN3082
· 14.2 UN proper shipping name
  · ADR
    3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers, Alkylphenol Polyglycolether)
  · IMDG
    ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers, Alkylphenol Polyglycolether), MARINE POLLUTANT
  · IATA
    ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers, Alkylphenol Polyglycolether)
14.3 Transport hazard class(es)

- ADR
  - Class 9 (M6) Miscellaneous dangerous substances and articles.
  - Label 9

- IMDG, IATA
  - Class 9 Miscellaneous dangerous substances and articles.
  - Label 9

14.4 Packing group

- ADR, IMDG, IATA III

14.5 Environmental hazards:
Product contains environmentally hazardous substances:
Diisopropyl naphthalene isomers

- Marine pollutant:
  - Yes
  - Symbol (fish and tree)

- Special marking (ADR):
  - Symbol (fish and tree)

- Special marking (IATA):
  - Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

- Hazard identification number (Kemler code): 90
- EMS Number: F-A-S-F

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

- Transport/Additional information:
  - Not dangerous according to the above specifications.

- ADR
- Tunnel restriction code E

- UN "Model Regulation":
  - UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers, Alkylphenol Polyglycolether), 9, III

SECTION 15: Regulatory information

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

- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)
  - 9016-45-9 Alkylphenol Polyglycolether Sunset date: 2021-01-04

- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 46b

(Contd. of page 7)
### Trade name: Ultima Gold

#### SECTION 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.

**Relevant phrases**

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

**Department issuing SDS:** Quality Assurance, Environment, Safety & Health (QA/ESH)

**Contact:** SDS.Groningen@perkinelmer.com

**Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- 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)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity - oral – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Rep. 2: Reproductive toxicity – Category 2
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*Data compared to the previous version altered.*