

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 03.11.2023

Version number 20 (replaces version 19)

Revision: 03.11.2023

**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:**  
 Revvity Health Sciences B.V.  
 Rigaweg 22  
 9723 TH Groningen  
 The Netherlands  
 Phone: 0031 50 5445900  
 www.revvity.com
- **Further information obtainable from:**  
 Quality Assurance, Environment, Safety & Health (QA/ESH)  
 SDS.Groningen@revvity.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**



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.



corrosion

Eye Dam. 1                H318    Causes serious eye damage.



environment

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



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 GB CLP regulation.

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· **Hazard pictograms**



GHS05 GHS08 GHS09

· **Signal word** *Danger*

· **Hazard-determining components of labelling:**

*Diisopropyl naphthalene isomers*  
*bis(2-ethylhexyl) hydrogen 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.*  
*P302+P352 IF ON SKIN: Wash with plenty of water.*  
*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 Mixtures**

· **Description:** *Mixture of substances listed below with nonhazardous additions.*

· **Dangerous components:**

CAS: 38640-62-9 EINECS: 254-052-6	<i>Diisopropyl naphthalene isomers</i> ⚠ Asp. Tox. 1, H304 ⚠ Aquatic Chronic 1, H410 PBT; vPvB	60-80%
CAS: 9016-45-9 NLP: 500-024-6	<i>Alkylphenol Polyglycolether</i> ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	10-20%
	<i>bis(2-ethylhexyl) hydrogen phosphate</i> ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302	

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CAS: 9016-45-9 NLP: 500-024-6	Alkylphenol Polyglycolether Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	2.5-10%
CAS: 12645-31-7 EINECS: 235-741-0	Phosphoric acid, 2-ethylhexyl ester Skin Corr. 1B, H314	2.5-10%
CAS: 111-42-2 EINECS: 203-868-0 Index number: 603-071-00-1	2,2'-iminodiethanol Repr. 2, H361fd; STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315 Aquatic Chronic 3, H412	2.5-5%
CAS: 577-11-7 EINECS: 209-406-4	Sodium dioctyl sulphosuccinate Eye Dam. 1, H318 Skin Irrit. 2, H315	0-2.5%
CAS: 78-40-0 EINECS: 201-114-5 Index number: 015-013-00-7	Triethyl phosphate Acute Tox. 4, H302; Eye Irrit. 2, H319	0-2.5%

**· Non-dangerous components**

CAS: 92-71-7 EINECS: 202-181-3	2,5-Diphenyloxazole (PPO)	0-2.5%
CAS: 7732-18-5 EINECS: 231-791-2	water, distilled, conductivity or of similar purity	0-2.5%
CAS: 13280-61-0 EINECS: 236-285-5	1,4-Bis-(2-methylstyryl)-benzene (bis-MSB)	0-2.5%

**· 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.
- **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.  
CO<sub>2</sub>, 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.

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### 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.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **7.2 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:**  
Protect from heat and direct sunlight.  
Store receptacle in fume cupboard.
- **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**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as 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.
- **Hand protection**



Protective gloves

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EN ISO 374-1/Type B

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.2$  mm

Breakthrough time:  $> 120$  minutes

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.

· **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/face protection**



Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

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

· **General Information**

· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Characteristic
· <b>Melting point/freezing point:</b>	Undetermined.
· <b>Boiling point or initial boiling point and boiling range</b>	290 °C (554 °F)
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	0.4 Vol % (38640-62-9 Diisopropyl naphthalene isomers)
· <b>Upper:</b>	4.7 Vol % (38640-62-9 Diisopropyl naphthalene isomers)
· <b>Flash point:</b>	152 °C (305.6 °F)
· <b>Auto-ignition temperature:</b>	500 °C (932 °F)
· <b>pH at 20 °C (68 °F)</b>	6
· <b>Solubility</b>	
· <b>water:</b>	Not miscible or difficult to mix.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C (68 °F):</b>	0.98 g/cm <sup>3</sup> (8.1781 lbs/gal)

· **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void

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- *Gases under pressure* Void
- *Flammable liquids* Void
- *Flammable solids* Void
- *Self-reactive substances and mixtures* Void
- *Pyrophoric liquids* Void
- *Pyrophoric solids* Void
- *Self-heating substances and mixtures* Void
- *Substances and mixtures, which emit flammable gases in contact with water* Void
- *Oxidising liquids* Void
- *Oxidising solids* Void
- *Organic peroxides* Void
- *Corrosive to metals* Void
- *Desensitised explosives* Void

**SECTION 10: Stability and reactivity**

- **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

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	8,886 mg/kg
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**38640-62-9 Diisopropyl naphthalene isomers**

Oral	LD50	4,000 mg/kg (Rat)
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- **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.
- **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.

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· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**9016-45-9 Alkylphenol Polyglycoether**

chronic NOEC/ECx >1 mg/l (Alge)

**9016-45-9 Alkylphenol Polyglycoether**

chronic NOEC/ECx >1 mg/l (Alge)

· **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.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:**

38640-62-9 Diisopropyl naphthalene isomers

· **vPvB:**

38640-62-9 Diisopropyl naphthalene isomers

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse 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

**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 or ID number**

· **ADR, IMDG, IATA**

UN3082

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· **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 Maritime transport in bulk according to IMO instruments** Not applicable.

· **Transport/Additional information:** Not dangerous according to the above specifications.  
 · **ADR**  
 · **Tunnel restriction code** E

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

**SECTION 15: Regulatory information**

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

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)**

9016-45-9 Alkylphenol Polyglycoether

Sunset date: 2021-01-04

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**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**

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.

H412 Harmful to aquatic life with long lasting effects.

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

· **Contact:** SDS.Groningen@revvity.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 relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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*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*  
*Acute Tox. 4: Acute toxicity – 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*  
*Repr. 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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3*  
**\* Data compared to the previous version altered.**

GB