

1 Identification

- **Product identifier**
- **Trade name:** *Ultima Gold MV*
- **Article number:** 6013159, 6013153, 6013151
- **Application of the substance / the mixture** *Laboratory chemicals*
- **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*
- **Information department:**
*Quality Assurance, Environment, Safety & Health (QA/ESH)
SDS.Groningen@perkinelmer.com*
- **Emergency telephone number:**
*+31 50 5445971
CHEMTREC (within U.S.A. and Canada) 1-800-424-9300
CHEMTREC (from outside U.S.A. and Canada) +1703-527-3887*

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

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.

- **Label elements**

- **GHS label elements**

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

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Trade name: *Ultima Gold MV*

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Hazard pictograms



GHS05 GHS08 GHS09

Signal word *Danger*

Hazard-determining components of labeling:

Diisopropyl naphthalene isomers
Alkylphenol Polyglycoether
Diisooctyl acid phosphate
Isoparaffinic Hydrocarbon

Hazard statements

H315 Causes skin irritation.
H318 Causes serious eye damage.
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.

Other hazards

Results of PBT and vPvB assessment

PBT:

38640-62-9 *Diisopropyl naphthalene isomers*

vPvB:

38640-62-9 *Diisopropyl naphthalene isomers*

3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

38640-62-9	<i>Diisopropyl naphthalene isomers</i> PBT; vPvB Asp. Tox. 1, H304 Aquatic Chronic 1, H410	60-80%
	<i>Isoparaffinic Hydrocarbon</i> Asp. Tox. 1, H304	10-20%
9016-45-9	<i>Alkylphenol Polyglycoether</i> Eye Dam. 1, H318 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Skin Irrit. 2, H315	2.5-10%

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9016-45-9	Alkylphenol Polyglycoether <ul style="list-style-type: none"> ⚠ Aquatic Chronic 2, H411 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319 	2.5-10%
298-07-7	Diisooctyl acid phosphate <ul style="list-style-type: none"> ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302 	2.5-10%
111-42-2	2,2'-iminodiethanol <ul style="list-style-type: none"> ⚠ Carc. 2, H351; Repr. 2, H361; STOT RE 2, H373 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315 Aquatic Chronic 3, H412 	0-2.5%
12645-31-7	Phosphoric acid, 2-ethylhexyl ester <ul style="list-style-type: none"> ⚠ Flam. Liq. 3, H226 ⚠ Skin Corr. 1B, H314 	0-2.5%
577-11-7	Sodium dioctyl sulphosuccinate <ul style="list-style-type: none"> ⚠ Eye Dam. 1, H318 ⚠ Skin Irrit. 2, H315 	0-2.5%
78-40-0	Triethyl phosphate <ul style="list-style-type: none"> ⚠ Acute Tox. 4, H302; Eye Irrit. 2A, H319 	0-2.5%

· **Non-Dangerous components**

7732-18-5	water, distilled, conductivity or of similar purity	0-2.5%
92-71-7	2,5-Diphenyloxazole (PPO)	0-2.5%
13280-61-0	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.

4 First-aid measures

- **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.
- **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.
CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear fully protective suit.

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**

Keep people at a distance and stay upwind.

Ensure adequate ventilation

· **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.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· **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:**

38640-62-9	Diisopropyl naphthalene isomers	5.6 mg/m ³
298-07-7	Diisooctyl acid phosphate	15 mg/m ³
111-42-2	2,2'-iminodiethanol	3 mg/m ³
577-11-7	Sodium dioctyl sulphosuccinate	5.7 mg/m ³
92-71-7	2,5-Diphenyloxazole (PPO)	2.5 mg/m ³
78-40-0	Triethyl phosphate	23 mg/m ³
13280-61-0	1,4-Bis-(2-methylstyryl)-benzene (bis-MSB)	12 mg/m ³

· **PAC-2:**

38640-62-9	Diisopropyl naphthalene isomers	61 mg/m ³
298-07-7	Diisooctyl acid phosphate	160 mg/m ³
111-42-2	2,2'-iminodiethanol	28 mg/m ³
577-11-7	Sodium dioctyl sulphosuccinate	63 mg/m ³
92-71-7	2,5-Diphenyloxazole (PPO)	27 mg/m ³
78-40-0	Triethyl phosphate	250 mg/m ³
13280-61-0	1,4-Bis-(2-methylstyryl)-benzene (bis-MSB)	130 mg/m ³

· **PAC-3:**

38640-62-9	Diisopropyl naphthalene isomers	370 mg/m ³
298-07-7	Diisooctyl acid phosphate	980 mg/m ³
111-42-2	2,2'-iminodiethanol	130 mg/m ³
577-11-7	Sodium dioctyl sulphosuccinate	380 mg/m ³
92-71-7	2,5-Diphenyloxazole (PPO)	160 mg/m ³
78-40-0	Triethyl phosphate	320 mg/m ³
13280-61-0	1,4-Bis-(2-methylstyryl)-benzene (bis-MSB)	790 mg/m ³

7 Handling and storage

· **Handling:**

· **Precautions for safe handling** No special measures required.

· **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.

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- **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 compartment.
- **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:**
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.
- **Breathing equipment:** 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 break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:

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Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid
Color: Colorless
Odor: Characteristic

· pH-value at 20 °C (68 °F): 5.7

· Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 212 °C (413.6 °F)

· Flash point: 152 °C (305.6 °F)

· Ignition temperature: 450 °C (842 °F)

· 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: 0.4 Vol %
Upper: 4.7 Vol %

· Density at 20 °C (68 °F): 0.96 g/cm³ (8.0112 lbs/gal)

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Solvent content:

VOC content: < 2.5 %

· 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: Carbon monoxide

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral	LD50	<2,889 mg/kg
Dermal	LD50	25,050 mg/kg (rbt)

38640-62-9 Diisopropyl naphthalene isomers

Oral	LD50	4,000 mg/kg (Rat)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

111-42-2	2,2'-iminodiethanol	2B
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· **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:**

9016-45-9 Alkylphenol Polyglycoether

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

9016-45-9 Alkylphenol Polyglycoether

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

- **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.

· **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

(Contd. on page 8)

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· Results of PBT and vPvB assessment	
· PBT:	
38640-62-9	Diisopropyl naphthalene isomers
· vPvB:	
38640-62-9	Diisopropyl naphthalene isomers
· 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	UN3082
· ADR, IMDG, IATA	UN3082
· UN proper shipping name	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers, Alkylphenol Polyglycoether)
· ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers, Alkylphenol Polyglycoether)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers, Alkylphenol Polyglycoether), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers, Alkylphenol Polyglycoether)
· 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

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· Packing group · ADR, IMDG, IATA	<i>III</i>
· Environmental hazards: · Marine pollutant:	<i>Product contains environmentally hazardous substances: Diisopropyl naphthalene isomers Yes Symbol (fish and tree)</i>
· Special marking (ADR): · Special marking (IATA):	<i>Symbol (fish and tree) Symbol (fish and tree)</i>
· Special precautions for user · Hazard identification number (Kemler code): 90 · EMS Number:	<i>Warning: Miscellaneous dangerous substances and articles F-A,S-F</i>
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	<i>Not applicable.</i>
· Transport/Additional information: · Remarks:	<i>Not dangerous according to the above specifications. Special marking with the symbol (fish and tree).</i>
· UN "Model Regulation":	<i>UN3082, Environmentally hazardous substances, liquid, n.o.s. (Diisopropyl naphthalene isomers, Alkylphenol Polyglycoether), 9, III</i>

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

111-42-2 | 2,2'-iminodiethanol

· **TSCA (Toxic Substances Control Act):**

<i>38640-62-9</i>	<i>Diisopropyl naphthalene isomers</i>	<i>ACTIVE</i>
<i>298-07-7</i>	<i>Diisooctyl acid phosphate</i>	<i>ACTIVE</i>
<i>111-42-2</i>	<i>2,2'-iminodiethanol</i>	<i>ACTIVE</i>
<i>577-11-7</i>	<i>Sodium dioctyl sulphosuccinate</i>	<i>ACTIVE</i>
<i>7732-18-5</i>	<i>water, distilled, conductivity or of similar purity</i>	<i>ACTIVE</i>
<i>92-71-7</i>	<i>2,5-Diphenyloxazole (PPO)</i>	<i>ACTIVE</i>
<i>78-40-0</i>	<i>Triethyl phosphate</i>	<i>ACTIVE</i>

· **Hazardous Air Pollutants**

111-42-2 | 2,2'-iminodiethanol

· **Proposition 65**

· **Chemicals known to cause cancer:**

111-42-2 | 2,2'-iminodiethanol

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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Trade name: *Ultima Gold MV*

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· **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)**

111-42-2	2,2'-iminodiethanol	A3
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· **MAK (German Maximum Workplace Concentration)**

111-42-2	2,2'-iminodiethanol	0.46 ppm; 2 mg/m ³
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· **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**



GHS05 GHS08 GHS09

· **Signal word** *Danger*

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

Diisopropyl naphthalene isomers
Alkylphenol Polyglycoether
Diisooctyl acid phosphate
Isoparaffinic Hydrocarbon

· **Hazard statements**

H315 Causes skin irritation.
H318 Causes serious eye damage.
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.

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
Wasser	0-2.5
NK	0-2.5

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· **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.

· **Relevant phrases**

- H226 Flammable liquid and vapor.
- 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.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or 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

· **Date of preparation / last revision** 11/20/2020 / 9

· **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)
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organisation
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
- 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
- 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)
- 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
- Flam. Liq. 3: Flammable liquids – Category 3
- 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. 2A: Serious eye damage/eye irritation – Category 2A
- Carc. 2: Carcinogenicity – 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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· *** Data compared to the previous version altered.**

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