

Page 1/10

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

Printing date 15.10.2019

Version number 1

Revision: 13.12.2017

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

- · 1.1 Product identifier
- · Product name: Propaphos 10 µg/mL in Isooctane
- Part number: DRE-L1642000010
- 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 Reference material for laboratory use only
- \cdot 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: LGC Limited Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM

Tel :+44 (0) 20 8943 7000 Fax :+44 (0) 20 8943 2767 eMail : gb@lgcstandards.com Web : www.lgcstandards.com

 Further information obtainable from: Product safety department
 eMail : sds-request@lgcgroup.com
 1.4 Emergency telephone number: +44 (0) 20 8943 7000 (Monday - Friday : 8am - 5pm)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008

GHS02 flame

Flam. Liq. 2

H225 Highly flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.

GHS09 environment

Aquatic Acute 1H400Very toxic to aquatic life.Aquatic Chronic 1H410Very toxic to aquatic life with long lasting effects.

GHS07

Skin Irrit. 2H315 Causes skin irritation.STOT SE 3H336 May cause drowsiness or dizziness.

(Contd. on page 2)



Page 2/10

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

Printing date 15.10.2019 Version number 1 Revision: 13.12.2017 Product name: Propaphos 10 µg/mL in Isooctane (Contd. from page 1) · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. · Hazard pictograms GHS07 GHS02 GHS08 GHS09 · Signal word Danger · Hazard-determining components of labelling: 2,2,4-Trimethylpentane · Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects. · Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/protective clothing/eye protection/face protection. *P301+P310* IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · 2.3 Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable.

• **vPvB**: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• Description: Mixture: consisting of the following components.

· Dangerous components:		
CAS: 540-84-1	2,2,4-Trimethylpentane	>99%
EINECS: 208-759-1	Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	
RTECS: SA 3320000	Aquatic Chronic 1, H410; 🚯 Skin Irrit. 2, H315; STOT SE 3, H336	
CAS: 7292-16-2	Propaphos	<0.1%
RTECS: TC6586000	🛞 Acute Tox. 3, H301; Acute Tox. 2, H310; 🚯 Aquatic Chronic 2, H411	
(Contd. on page 3)		



Page 3/10

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

Printing date 15.10.2019

Version number 1

Revision: 13.12.2017

Product name: Propaphos 10 µg/mL in Isooctane

• Additional information: For the wording of the listed hazard phrases refer to section 16.

(Contd. from page 2)

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient in recovery position for transport.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

- If skin irritation continues, consult a doctor.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing:
- Rinse mouth. Do not induce vomiting.
- Call for a doctor immediately.
- 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
- \cdot Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- \cdot 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 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).
 Dispose of contaminated material as waste according to item 13.
 Ensure adequate ventilation.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.

(Contd. on page 4)

GB



Page 4/10

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

Printing date 15.10.2019

Version number 1

Revision: 13.12.2017

(Contd. from page 3)

Product name: Propaphos 10 µg/mL in Isooctane

See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/extraction at the workplace. Store in cool, dry place in tightly closed receptacles. Prevent formation of aerosols.

- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.*
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles: Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

· Information about storage in one common storage facility: Store away from foodstuffs.

 \cdot Further information about storage conditions:

Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

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

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

- · 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: Lists used were valid at the time of SDS preparation.
- · 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 eves and skin.
- · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced

(Contd. on page 5)

GB



Page 5/10

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

Printing date 15.10.2019

Version number 1

Revision: 13.12.2017

(Contd. from page 4)

Product name: Propaphos 10 µg/mL in Isooctane

• Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

- Material of gloves Nitrile rubber, NBR
- · 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

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical a	nd chemical properties
· General Information	
· Appearance:	
Form:	Liquid
Colour:	Colourless
· Odour:	Petrol-like
• Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	-107 °C
Initial boiling point and boiling ra	unge: 99 °C
· Flash point:	-12 °C
· Flammability (solid, gas):	Not determined.
· Ignition temperature:	410 °C
· Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air, vapour mixtures is possible.
	vapour mixtures is possible. (Contd. on pag

n page

GB



Page 6/10

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

Printing date 15.10.2019

Version number 1

Revision: 13.12.2017

Product name: Propaphos 10 µg/mL in Isooctane

	(Contd.	from page
• Explosion limits:		
Lower:	1.1 Vol %	
Upper:	6 Vol %	
· Vapour pressure at 20 °C:	15 hPa	
· Density at 20 °C:	0.69 g/cm ³	
· Relative density	Not determined.	
Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic at 20 °C:	0.51 mPas	
Kinematic:	Not determined.	
· 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity

Stable under normal conditions.

No further relevant information available.

• 10.2 Chemical stability Stable under normal conditions.

- *Thermal decomposition / conditions to be avoided: Formation of toxic gases is possible during heating or in case of fire.*
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- \cdot 10.4 Conditions to avoid
- Sources of ignition

Heat.

- 10.5 Incompatible materials: Strong oxidizing agents.
- · 10.6 Hazardous decomposition products:

Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

 \cdot 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

(Contd. on page 7)

GB



Page 7/10

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

Printing date 15.10.2019

Version number 1

Revision: 13.12.2017

Product name: Propaphos 10 µg/mL in Isooctane

(Contd. from page 6)

· CMR effects (carcinogenity, 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 Based on available data, the classification criteria are not met.

· STOT-single exposure

May cause drowsiness or dizziness.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard

May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

CAS: 540-84-1 2,2,4-Trimethylpentane

EC50/48 h 0.38 mg/l (daphnia)

- · 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: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · European waste catalogue

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

(Contd. on page 8)



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

Printing date 15.10.2019

Version number 1

Revision: 13.12.2017

(Contd. from page 7)

Product name: Propaphos 10 µg/mL in Isooctane

• Uncleaned packaging: • Recommendation: Dispose of in accordance with national regulations.

14.1 UN-Number	
ADR, IMDG, IATA	UN1262
ADR, IMDO, IATA	1262 OCTANES mixture, ENVIRONMENTALL
	HAZARDOUS
IMDG	OCTANES mixture, MARINE POLLUTANT
IATA	OCTANES mixture
14.3 Transport hazard class(es)	
ADR, IMDG	
Class	3 Flammable liquids.
Label	3
IATA	
Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR, IMDG, IATA	II
14.5 Environmental hazards:	Product contains environmentally hazardous substance
	2,2,4-Trimethylpentane
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Danger code (Kemler):	33
EMS Number:	F-E,S-E
Stowage Category	В
14.7 Transport in bulk according to Ann	ex II of
Marpol and the IBC Code	Not applicable.



Page 9/10

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

Printing date 15.10.2019

Version number 1

Revision: 13.12.2017

Product name: Propaphos 10 µg/mL in Isooctane

	(Contd. from page
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	1L
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· Transport category	2
• Tunnel restriction code	D/E
· UN "Model Regulation":	UN 1262 OCTANES MIXTURE, 3, 11 ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category
- E1 Hazardous to the Aquatic Environment
- P5c FLAMMABLE LIQUIDS
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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

SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

· 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 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) PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 10)

GB



Page 10/10

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

Printing date 15.10.2019

Version number 1

Revision: 13.12.2017

Product name: Propaphos 10 µg/mL in Isooctane

(Contd. from page 9)

GB

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 2: Acute toxicity – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic 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 · Sources Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of

Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

· Data compared to the previous version altered. All sections have been updated.