

SAFETY DATA SHEET

1. Identification of the substance or preparation and of the company/undertaking

1.1 Product identifier

- Product Name: LO SEPARATOR CLEANER

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1.2 Relevant identified uses of the substance or mixture and uses advised against

- Cleaning agent

1.3 Details of the supplier of the safety data sheet

Company:

Unimarine Services Inc.
60 Market Square,
PO Box 364, Belize City

Contact your nearest Unimarine sales office

Representative office in Greece:

Email: info@unimarine.gr
Tel: +30 210 9957279

1.4 Emergency Telephone Number

Emergency Telephone: Only to be used in case of incident
Tel: 00357 25 662068

2. Hazards identification

2.1 Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to current The Dangerous Substances Directive (67/548/EEC)
- Symbols: C
- Causes burns (R34)
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- Classification according to Regulation (EC) No 1272/2008
- Skin Corr. 1B
- Met. Corr. 1
- Eye Irrit. 2

2. Hazards identification

2.2 Label elements



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- Signal Word: Danger
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- Contains:
 - phosphoric acid
 - 2-(2-butoxyethoxy)ethanol
- Hazard phrases
 - Causes severe skin burns and eye damage (H314).
 - May be corrosive to metals (H290).
- Precautionary Phrases
 - Wear protective gloves/protective clothing/eye protection/face protection (P280).
 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
 - Immediately call a POISON CENTER or doctor/physician (P310).

2.3 Other hazards

- Odour: Odourless
 - Appearance: Liquid, pale yellow, soluble in water
 - Contact with eyes: Can cause damage to the eyes
 - Contact with skin: Prolonged skin or eye contact may cause chemical burns
 - Inhalation: Vapours or aerosols may cause irritation of eyes, nose and respiratory tract, Can cause damage to the lungs
 - Ingestion: The ingestion of significant quantities may cause damage to digestive system
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3. Composition/information on ingredients

3.1 Mixtures

- phosphoric acid ... %, orthophosphoric acid ... %
 - Concentration: 30-60%
 - CAS Number: 7664-38-2
 - EC Number: 231-633-2
 - R/H Phrases: R34, H314, H290
 - Symbols: GHS05, C
 - Categories: Skin Corr. 1B, Met. Corr. 1
 - 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether
 - Concentration: 1-5%
 - CAS Number: 112-34-5
 - EC Number: 203-961-6
 - R/H Phrases: R36, H319
 - Symbols: GHS07, Xi
 - Categories: Eye Irrit. 2
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4. First aid measures

4.1 Description of first aid measures

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
 - Seek immediate medical attention
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4. First aid measures

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
 - Seek medical attention if irritation persists
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 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P341).
 - Give plenty of water to drink
 - When in doubt or symptoms persist, seek medical attention
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 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
 - Give plenty of water to drink
 - Never make an unconscious person vomit or drink fluids
 - Seek immediate medical attention
- 4.2 Most important symptoms and effects, both acute and delayed
- Prolonged skin or eye contact may cause chemical burns
 - Can cause damage to the eyes, skin and mucous membranes
 - The ingestion of significant quantities may cause damage to digestive system
- 4.3 Indication of any immediate medical attention and special treatment needed
- No information available
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5. Fire-fighting measures

- 5.1 Extinguishing media
- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- 5.2 Special hazards arising from the substance or mixture
- Smoke from fires is corrosive. Take precautions to protect personnel from exposure
- 5.3 Advice for firefighters
- Smoke from fires is corrosive. Take precautions to protect personnel from exposure
 - Wear chemical protection suit and positive-pressure breathing apparatus
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6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
- Wear protective clothing as per section 8
- 6.2 Environmental Precautions
- No special precautions are required for this product
- 6.3 Methods and material for containment and cleaning up
- Absorb spillage in inert material and shovel up
 - Ventilate the area and wash spill site after material pick-up is complete
- 6.4 Reference to other sections
- See Section 13
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7. Handling and storage

- 7.1 Precautions for safe handling
- Wear protective clothing as per section 8
 - Eyewash bottles should be available
 - Do not breathe dust/fume/gas/mist/vapours/spray (P260).
- 7.2 Conditions for safe storage, including any incompatibilities
- Keep only in the original container in a cool, well ventilated place (S3/9/49)
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7. Handling and storage

7.3 Specific end use(s)

- Contact supplier for further information

8. Exposure controls/personal protection

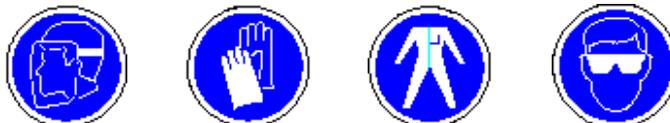
8.1 Control parameters

- phosphoric acid
TLV (TWA) 1 mg/m³ ()
- 2-(2-butoxyethoxy)ethanol
TLV (TWA) 67,5 mg/m³ (Denmark, UK, EU)
TLV (TWA) 50 mg/m³ (Netherlands)
TLV (TWA) 68 mg/m³ (Norway)

8.2 Exposure controls

- No special precautions are required for this product

8.3 Occupational exposure controls



- No respiratory protection is required unless subject to contact with substance mist
- Wear suitable respiratory protection. Gas cartridge (acid gases).
- Wear face mask giving complete face protection
- Wear neoprene or nitrile gloves
- Wear plastic or rubber gloves
- 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.
- Wear suitable clothing providing resistance to acids
- Use good personal hygiene practices
- Wash hands and working surfaces thoroughly after handling (P264).

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: Liquid, pale yellow, soluble in water
- pH 1.5 - 2.5 at 1 % concentration
- Boiling point >100 °C to 760 °C
- Density: Density 1.255 - 1.275 g/cm³ at 20 deg C
- Vapour pressure - not known
- Vapour density - not known
- Completely soluble in water
- Specific gravity (water=1) 1.15 - 1.17

9.2 Other information

- No information available

10. Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- This article is considered stable under normal conditions

10. Stability and reactivity

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

- Avoid overheating

10.5 Incompatible materials

- Avoid contact with metals
- Contact with alkalis (strong bases) may form toxic gases

10.6 Hazardous Decomposition Products

- No hazardous decomposition products known
 - Decomposition products may include phosphorous compounds
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11. Toxicological information

11.1 Information on toxicological effects

- No experimental data available

11.2 Contact with eyes

- Can cause damage to the eyes

11.3 Contact with skin

- Causes redness and irritation
- In cases of severe exposure, blistering of the skin may develop

11.4 Ingestion

- The ingestion of significant quantities may cause damage to mucous membranes

11.5 Inhalation

- In cases of severe exposure, dizziness, confusion, headache or stupor may develop
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12. Ecological information

12.1 Toxicity

- LC50 (fish) OECD-test, 2-(2-butoksyetoksyetanol) 2500 mg/l (96 hr)
- EC50 (daphnia) OECD-test, 2-(2-butoksyetoksyetanol) >1000 mg/l (48 hr)
- Biodegradability. OECD-test. > 70% OECD 302B, CAS: 112-43-5

12.2 Persistence and degradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

12.3 Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

12.4 Mobility in soil

- Completely soluble in water

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

12.6 Other Adverse Effects

- This product contain an acidic component which may cause a low pH-value. Effect depends on waterquality and the organisms tolerance due to pH-value
 - Effect depends on waterquality and the organisms tolerance due to pH-value.
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13. Disposal considerations

13.1 Waste treatment methods

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13. Disposal considerations

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Disposal should be in accordance with local, state or national legislation

13.2 Classification

- EU Waste class: 06 01 04
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14. Transport information



14.1 UN

- UN No.: UN1805
- Proper Shipping Name: PHOSPHORIC ACID SOLUTION
- Hazard Class: 8
- Packing Group: III

14.2 Environmental hazards

- Presents no hazard to the environment

14.3 Special precautions for user

- Forbidden on passenger aircraft

14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

14.5 Road/Rail (ADR/RID)

- ADR UN No.: UN1805
- Proper Shipping Name: PHOSPHORIC ACID SOLUTION
- ADR Hazard Class: 8
- ADR Packing Group: III

14.6 Sea (IMDG)

- IMDG UN No.: UN1805
- Proper Shipping Name: PHOSPHORIC ACID SOLUTION
- IMDG Hazard Class: 8
- IMDG Pack Group.: III
- IMDG EmS: F-A, S-B

14.7 Air (ICAO/IATA)

- ICAO Un No.: UN1805
- Proper Shipping Name: PHOSPHORIC ACID SOLUTION
- ICAO Hazard Class: 8
- ICAO Packing Group: III

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN1805
 - DOT Proper Shipping Name: PHOSPHORIC ACID SOLUTION
 - DOT Labels: 8
 - Product RQ (lbs): Not applicable
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15. Regulatory information

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

- Composition information in accordance with EC Regulation 648/2004 of the European Parliament and of the Council of 31st March 2004 on detergents:
 - Nonionic surfactants <5 %
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15. Regulatory information

This composition meets the criteria for not being harmful to the marine environment according to MARPOL Annex V and may be discharged into the sea when used to clean cargo holds and external surfaces on ships.

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.
- Refer to The Dangerous Substances Directive (67/548/EEC)
- Classification according to Regulation (EC) No 1272/2008
- This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006-453/2010
- Offshore product registration number: Danish PR number: 1360340

15.2 Chemical Safety Assessment

- None
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16. Other information

The information contained herein relates only to the specific material identified. Unimarine Services Inc. Believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Unimarine Services Inc. urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application