

SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: DESCALING LIQUID

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

- Use of the substance/preparation:
- 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.
- This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)
- Symbols: C
- Causes burns (R34)
- Irritating to respiratory system (R37)
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- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations

2. Hazards identification

- Signal Word: Danger
- Symbols: GHS07, GHS05
- Skin Corr. 1B
- STOT SE 3
- Met. Corr. 1
- Causes severe skin burns and eye damage (H314).
- May cause respiratory irritation (H335).
- May be corrosive to metals (H290).

2.2 Label elements



- Signal Word: Danger
- Skin Corr. 1B
- STOT SE 3
- Met. Corr. 1
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- Contains:
- Hydrochloric acid 33-35%
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- Hazard phrases
 - Causes severe skin burns and eye damage (H314).
 - May cause respiratory irritation (H335).
 - May be corrosive to metals (H290).
- Precautionary Phrases
 - Do not breathe dust/fume/gas/mist/vapours/spray (P260).
 - Wear protective gloves/protective clothing/eye protection/face protection (P280).
 - Get immediate medical advice/attention (P315).
 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower (P303+P361+P353).
 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
 - Store in a well-ventilated place. Keep container tightly closed (P403+P233).

2.3 Other hazards

- Not applicable
 - Not a PBT according to REACH Annex XIII
 - Odour: Strong smell of hydrogen chloride
 - Appearance: Liquid, pale yellow, soluble in water
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3. Composition/information on ingredients

3.1 Mixtures

- hydrochloric acid ... %
 - Concentration: 33-35%
 - CAS Number: 7647-01-0
 - EC Number: 231-595-7
 - R/H Phrases: R34,R37 - H314,H335,H290
 - Symbols: GHS05,GHS07, C
 - Categories: Skin Corr. 1B, STOT SE 3, Met. Corr. 1
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4. First aid measures

4.1 Description of 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 advice if necessary
- Contaminated clothing should be laundered before reuse
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- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing (P305+P351+P338).
- Irrigate eyes thoroughly whilst lifting eyelids
- Obtain immediate medical attention
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- IF SWALLOWED: rinse mouth. Do NOT induce vomiting (P301+P330+P331).
- Never give anything by mouth to an unconscious person
- Give plenty of water to drink
- Obtain immediate medical attention
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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).
- Seek medical attention if irritation persists

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes, skin and mucous membranes

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
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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
- Keep container(s) exposed to fire cool, by spraying with water
- See Section 10

5.3 Advice for firefighters

- Substance evolves toxic fumes, wear self-contained 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

- Avoid release to the environment (P273).

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
- Avoid breathing dust/fume/gas/mist/vapours/spray (P261).
- Do not get in eyes, on skin, or on clothing (P262).
- Keep away from heat/sparks/open flames/hot surfaces. – No smoking (P210).
- Eyewash bottles should be available
- Ensure adequate ventilation

7.2 Conditions for safe storage, including any incompatibilities

- Store in a dry place. Store in a closed container (P402+P404).
- Keep container tightly closed (P233).
- Keep in acid store

7.3 Specific end use(s)

- Contact supplier for further information
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8. Exposure controls/personal protection

8.1 Control parameters

- hydrochloric acid
 - TLV (TWA) 7 mg/m³ (Danish, Norwegian)
 - TLV (TWA) 2 mg/m³ (UK)
 - TLV (TWA) 8 mg/m³ (EU, Netherlands)

8.2 Exposure controls

- The undiluted product must not be used in a confined space without good ventilation

8.3 Occupational exposure controls



- Ensure adequate ventilation
 - Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
 - 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.
 - Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
 - Wear suitable respiratory protection. Gas cartridge (acid gases).
 - Eyewash bottles should be available
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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Odour: Strong smell of hydrogen chloride
- Appearance: Liquid, pale yellow, soluble in water
- pH 1
- Boiling point ~ 100 °C to 760 °C
- Vapour pressure 105.5 at 20 deg C
- Vapour density (air = 1) 1.26
- Completely soluble in water
- Odour threshold 5 mg/m³

9.2 Other information

- No information available
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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

10.3 Possibility of hazardous reactions

- Reaction products may include hydrogen

10.4 Conditions to avoid

- Avoid overheating
- Avoid contact with alkalis (strong bases)
- Avoid contact with metal

10.5 Incompatible materials

- Contact with metals liberates explosive gas
- Incompatible with alkalis (strong bases)

10.6 Hazardous Decomposition Products

- In case of fire: (P370)
 - Chlorine
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11. Toxicological information

11.1 Information on toxicological effects

- Acute toxicity. Oral. Rat. 1300 ppm

11.2 Contact with eyes

- Causes redness and irritation
- Prolonged skin or eye contact may cause chemical burns

11.3 Contact with skin

- Prolonged skin or eye contact may cause chemical burns

11.4 Ingestion

- Can cause damage to the digestive system

11.5 Inhalation

- Can cause damage to the respiratory system
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12. Ecological information

12.1 Toxicity

- LC50 (fish) 100-1000 mg/l (96 hr)
- 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
- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

12.2 Persistence and degradability

- Readily 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
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12. Ecological information

12.6 Other Adverse Effects

- No information available
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13. Disposal considerations

13.1 Waste treatment methods

- Obtain the consent of pollution control authorities before discharging to waste water treatment plants (S54)
- Disposal should be in accordance with local, state or national legislation

13.2 Classification

- EU Waste class: 06.01
 - This material and/or its container must be disposed of as hazardous waste
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14. Transport information



14.1 UN

- UN No.: UN1789
- Proper Shipping Name: Hydrochloric acid
- Hazard Class: 8
- Packing Group: II

14.2 Environmental hazards

- On available data, substance is not harmful to the environment

14.3 Special precautions for user

- No special precautions are required for this product

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.: UN1789
- Proper Shipping Name: Hydrochloric acid
- ADR Hazard Class: 8
- ADR Packing Group: II
- ADR subrisk: N/A
- ADR Flashpoint: N/A

14.6 Sea (IMDG)

- IMDG UN No.: UN1789
- Proper Shipping Name: Hydrochloric acid
- IMDG Hazard Class: 8
- IMDG Pack Group.: II
- IMDG EmS: F-A, S-B
- IMDG subrisk: N/A
- IMDG Flashpoint: N/A

14.7 Air (ICAO/IATA)

- ICAO Un No.: UN1789
 - Proper Shipping Name: Hydrochloric acid
 - ICAO Hazard Class: 8
 - ICAO Packing Group: II
 - ICAO subrisk: N/A
 - ICAO Flashpoint: N/A
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14. Transport information

14.8 DOT / CFR (US Department of Transportation)

- Identification Number: UN1789
 - DOT Proper Shipping Name: Hydrochloric acid
 - DOT Labels:
 - Product RQ (lbs): N/A
 - Hazardous Material: Hydrochloric acid
 - Hazard Class: 8
 - DOT subrisk: N/A
 - DOT Flashpoint: N/A
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15. Regulatory information

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

- This Safety Data Sheet has been prepared in accordance with article 31 and annex II in REACH and Directive 453/2010/EU.
- 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)
- Regulations 1272/2008/EEC. Classification, labeling and packing of dangerous substances and preparations
- Norwegian Productregistration no: 16178
- Offshore product registration number: Danish PR number: 1155304

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