

SAFETY DATA SHEET

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

Product Name: **DESCALING LIQUID**
 Datasheet Number: 571653 6. 0. 0
 Use of the substance/preparation: Cleaning agent
 Product Part Number: 571653 (25 liter)
 Name of Supplier: Wilhelmsen Ships Service AS
 Address of Supplier: Willem Barentszstraat 50
 3165 A B
 Rotterdam
 Telephone: +31 10 4877 777
 Fax: +31 10 4877 888
 Responsible Person: Patrick Rijsdijk, Corporate Product HSE Manager, Tel.: +31 6 349 44 035
 Email: Patrick.Rijsdijk@Wilhelmsen.com
 Name of Manufacturer: UNITOR CHEMICALS AS
 Address of Manufacturer: P.O.Box 15
 3141 Kjøpmannskjær
 Norway.
 Telephone: +47 333 515 00
 Emergency Telephone: NCEC: +44 1865 407333, CHEMTREC (800) 424 9300
 American Chemistry Council +1 703 527 3887, Greece +30 210 7793777

2 Hazards identification

- Odour: Strong smell of hydrogen chloride
- 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: Causes severe irritation, May cause breathing difficulty
- Ingestion: Not regarded as a potential route of exposure., Causes burning sensation



Corrosive

3 Composition/information on ingredients

| Chemical Name | Concentration | CAS Number | EC Number | R Phrases* | Symbols |
|-------------------|---------------|------------|-----------|------------|---------|
| hydrochloric acid | 20-40 | 7647-01-0 | 231-595-7 | 34, 37 | C |

*See Section 16

4 First aid measures

Contact with skin

- Remove contaminated clothing immediately and drench affected skin with plenty of water
- Seek medical advice if necessary
- Contaminated clothing should be laundered before reuse

4 First aid measures (....)

Contact with eyes

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- Irrigate eyes thoroughly whilst lifting eyelids
- Can cause damage to the eyes
- Obtain immediate medical attention

Ingestion

- Do not induce vomiting
- Never give anything by mouth to an unconscious person
- Give plenty of water to drink
- Obtain immediate medical attention

Inhalation

- Remove patient to fresh air
- Seek medical attention if ill effects occur

General

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)
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5 Fire-fighting measures

- Non combustible
 - Smoke from fires is corrosive, Hydrogen chloride may be formed
 - Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
 - Substance evolves toxic fumes, wear self-contained breathing apparatus
 - Use water spray or fog to knock down and absorb corrosive fumes
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6 Accidental release measures

Personal Precautions

- Wear protective clothing as per section 8

Environmental Precautions

- Do not allow to enter public sewers and watercourses

Clean Up Actions

- Absorb spillage in inert material and shovel up
- Ventilate the area and wash spill site after material pick-up is complete

Special Precautions

- Wear protective clothing as per section 8
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7 Handling and storage

Handling

- Avoid contact with skin and eyes (S24/25)
- Do not breathe vapour/fumes (S23)
- Eyewash bottles should be available
- Wear protective clothing as per section 8
- Ensure adequate ventilation
- In use, may form flammable/explosive vapour-air mixture (R18)

Storage

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
 - Keep in acid store
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8 Exposure controls and personal protection

Exposure Limits

- hydrochloric acid
TLV (TWA) 7 mg/m³ ()

Exposure controls

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

Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended)
- Respiratory protection may be required under exceptional circumstances when excessive air contamination exists
- Eyewash bottles should be available



Gloves



Suit

Visor

9 Physical and chemical properties

- Odour: Strong smell of hydrogen chloride
 - Appearance: Liquid, pale yellow, soluble in water
 - pH <1.5 at 100 % concentration
 - Boiling point ~ 100 °C at 760 mm /Hg
 - Vapour pressure 105.5 at 20 deg C
 - Vapour density (air = 1) 1.26
 - Freezing point ~ -30 °C at 760 mm/Hg
 - Completely soluble in water
 - Specific gravity (water=1) 1.16
 - Non combustible
-

10 Stability and reactivity

- This article is considered stable under normal conditions, In use, may form flammable/explosive vapour-air mixture (R18), Reaction products may include hydrogen
 - Avoid overheating
 - Incompatible with alkalis (strong bases)
 - Contact with nitrite (e.g. Dieselguard NB, Rocor NB Liquid) liberates toxic gas.
-

11 Toxicological information

Toxicological information

- Prolonged skin or eye contact may cause chemical burns

Inhalation

- Can cause damage to the respiratory system

Contact with skin

- Prolonged skin or eye contact may cause chemical burns

Contact with eyes

- Prolonged skin or eye contact may cause chemical burns

Ingestion

- Can cause damage to the digestive system
-

11 Toxicological information (....)

Carcinogenicity

- No evidence of carcinogenic effects
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12 Ecological information

Ecotoxicity

- May cause acute effects in the aquatic environment

Mobility

- Completely soluble in water

Persistence and Biodegradability

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

Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

Other Adverse Effects

- No environmental problems are expected when the product is used / handled correctly. In its intended use, the product will not be released into the environment.
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13 Disposal considerations

Classification

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

Disposal considerations

- 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
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14 Transport information



Corrosive

Proper Shipping Name: Hydrochloric acid, solution

Emergency Action Code

UN

Road/Rail (ADR/RID)

| | | | |
|-----------------------|-----------------------------|-------------------|---|
| Proper Shipping Name: | Hydrochloric acid, solution | | |
| ADR UN No.: | 1789 | ADR Hazard Class: | 8 |
| ADR Packing Group: | | ADR subrisk: | |
| ADR-RID Labels: | | ADR Flashpoint: | |

14 Transport information (....)

Sea (IMDG)

| | | | |
|-----------------------|-----------------------------|---------------------|----------|
| Proper Shipping Name: | Hydrochloric acid, solution | | |
| IMDG UN No.: | 1789 | IMDG Hazard Class.: | 8 |
| IMDG Pack Group.: | II | IMDG EmS: | F-A, S-B |
| IMDG subrisk: | N/A | IMDG Labels: | 8 |
| IMDG Flashpoint: | N/A | | |

Air (ICAO/IATA)

| | | | |
|-----------------------|-----------------------------|---------------------|-----|
| Proper Shipping Name: | Hydrochloric acid, solution | | |
| ICAO Un No.: | 1789 | ICAO Hazard Class.: | 8 |
| ICAO Packing Group.: | II | ICAO subrisk: | N/A |
| ICAO Labels: | 8 + CAO | ICAO Flashpoint: | N/A |

DOT / CFR (US Department of Transportation)

| | | | |
|---------------------------|-----------------------------|-------------------|-----|
| DOT Proper Shipping Name: | Hydrochloric acid, solution | | |
| Hazardous Material: | Hydrochloric acid | Hazard Class: | 8 |
| Identification Number: | UN 1789 | Product RQ (lbs): | N/E |
| DOT subrisk: | N/A | DOT Labels: | 8 |
| DOT Flashpoint: | N/A | | |

Transport information

- Forbidden on passenger aircraft

15 Regulatory information

Corrosive

Risk Phrases

- Causes burns (R34)
- Irritating to respiratory system (R37)

Safety Phrases

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
- Wear suitable protective clothing, eye/face protection and gloves (S36/37/39)
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45)

16 Other information

Text of R and S phrase codes used in this safety data sheet:- R34: Causes burns; R37: Irritating to respiratory system.

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

16 Other information (....)

The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer

This Safety Data Sheet is provided in compliance with The Dangerous Substances Directive (67/548/EEC)

This Safety Data Sheet is provided in compliance with The Dangerous Preparations Directive (88/379/EEC)

This Safety Data Sheet is provided in compliance with The Safety Data Sheets Directive (2001/58EC)