

SAFETY DATA SHEET

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

Product Name: **DESCALING LIQUID**
 Datasheet Number: 571653 10. 0. 0
 Use of the substance/preparation: Cleaning agent
 Product Part Number: 571653 (25 liter)
 Head Office:: Wilhelmsen Ships Service AS
 address: Strandveien 20, N1324 Lysaker, Norway, Tel: (+47) 67 58 45 50
 Name of Supplier: Wilhelmsen Ships Service AS
 Address of Supplier: Willem Barentszstraat 50
 3165AB Rotterdam
 The Netherlands
 Telephone: +31 10 4877 777
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 Responsible Person: Patrick Rijdsdijk, Product HSE Manager, Tel.: +31 6 349 440 35
 Email: Patrick.Rijdsdijk@Wilhelmsen.com
 Emergency Telephone: ****ONLY TO BE USED IN CASE OF AN INCIDENT****
 NCEC: +44 1865 407333, CHEMTREC (800) 424 9300
 American Chemistry Council +1 703 527 3887,
 Greece +30 210 7793777

2 Hazards identification



Corrosive

- 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

Classification of the substance or mixture

- Council Directive 1999/45/EEC Classification, packing and labelling of dangerous preparations.

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)

3 Composition/information on ingredients

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

3 Composition/information on ingredients (....)

*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

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, protective equipment and emergency procedures

- Wear protective clothing as per section 8

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

Special Precautions

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

Precautions for safe 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)
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7 Handling and storage (....)

Conditions for safe storage, including any incompatibilities

- 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/personal protection

Control parameters

- 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
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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.
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11 Toxicological information

Information on toxicological effects

- 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
-

11 Toxicological information (....)

Ingestion

- Can cause damage to the digestive system

Carcinogenicity

- No evidence of carcinogenic effects
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12 Ecological information

Ecotoxicity

- May cause acute effects in the aquatic environment

Persistence and degradability

- 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.

Mobility in soil

- Completely soluble in water

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

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

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

Corrosive

Proper Shipping Name: Hydrochloric acid

Road/Rail (ADR/RID)

Proper Shipping Name:	Hydrochloric acid		
ADR UN No.:	UN1789	ADR Hazard Class:	8
ADR Packing Group:	II	ADR subrisk:	N/A
ADR Flashpoint:	N/A		

Sea (IMDG)

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

14 Transport information (....)

Air (ICAO/IATA)

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

DOT / CFR (US Department of Transportation)

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

Special precautions for user

- Forbidden on passenger aircraft
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15 Regulatory information

Classification and labelling

- 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)

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.
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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

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