

SAFETY DATA SHEET

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

1.1 Product identifier

Product Name: DESCALING LIQUID
Datasheet Number: 571653-r 3. 0. 0
Product Part Number: 571653 (25 liter)
Head Office:: Wilhelmsen Ships Service AS
Address: Strandveien 20, N1324 Lysaker, Norway, Tel: (+47) 67 58 45 50

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

Name of Supplier: For quotations contact your local Customer Services
Address of Supplier: Wilhelmsen Ships Service AS
Willem Barentszstraat 50
3165AB Rotterdam
The Netherlands
Telephone: +31 10 4877 777
Fax: +31 10 4877 888
Responsible Person: , Product HSE Manager, Tel.: +31 10 4877775
Email: WSS.GLOBAL.SDSINFO@wilhelmsen.com

1.4 Emergency telephone number

-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
Australia: +61 3 9630 0998
Giftinformasjonssentralen in Norway Tel.: +47 22591300

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)

2.2 Label elements



Corrosive

- Contains:
- CAS:7647-01-0

2 Hazards identification (....)

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)

2.3 Other hazards

- Odour: Strong smell of hydrogen chloride
- Appearance: Liquid, pale yellow, soluble in water
- Inhalation: May cause severe irritation, May cause breathing difficulty

3 Composition/information on ingredients

3.1 Mixtures

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

*See Section 16

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.
- Seek medical advice if necessary
- Contaminated clothing should be laundered before reuse
-
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Irrigate eyes thoroughly whilst lifting eyelids
- Obtain immediate medical attention
-
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Never give anything by mouth to an unconscious person
- Give plenty of water to drink
- Obtain immediate medical attention
-
- IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- 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 First aid measures (....)

4.3 Indication of immediate medical attention and special treatment needed

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
- See Section 10

5.3 Advice for firefighters

- Substance evolves toxic fumes, wear self-contained breathing apparatus
-

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.

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

7 Handling and storage

7.1 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)

7.2 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

7.3 Specific end use(s)

8 Exposure controls/personal protection

8.1 Control parameters

- hydrochloric acid
 - TLV (TWA) 7 mg/m³ (Danish, Norwegian)
 - TLV (TWA) 2 mg/m³ (UK)
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8 Exposure controls/personal protection (....)

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

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
- Wear suitable respiratory protection. Gas cartridge (organic substances).
- Eyewash bottles should be available



Gloves



Suit



Visor

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 <1.5 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

9.2 Other information

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)

10.5 Incompatible materials

- Incompatible with alkalis (strong bases)
-

10 Stability and reactivity (....)

10.6 Hazardous Decomposition Products

- In use may form flammable/explosive vapour-air mixture.
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11 Toxicological information

11.1 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

Ingestion

- Can cause damage to the digestive system

Carcinogenicity

- No evidence of carcinogenic effects
-

12 Ecological information

12.1 Toxicity

- May cause acute effects in the aquatic environment

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

12.6 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

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
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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

14 Transport information

Corrosive

14.1 UN Number

- UN1789

14.2 UN Proper Shipping Name

- Hydrochloric acid

14.3 Transport hazard class(es)

- 8

14.4 Packing group

- II

14.5 Environmental hazards

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

14.6 Special precautions for user

- Forbidden on passenger aircraft

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

- Not applicable

Other information

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

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		

14 Transport information (...)

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		

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.

15.2 Chemical Safety Assessment

None

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

The most up-to-date version of this MSDS can be found on www.wilhelmsen.com/shipsservice

OTHER CONTACT INFORMATION MAJOR CHEMICAL OFFICES

For addresses of other Wilhelmsen Ships Service offices, please refer to www.wilhelmsen.com/shipsservice

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16 Other information (....)

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