
SAFETY DATA SHEET

1 Identification of the substance or preparation and the supplier

Product Name: **DESCALING LIQUID**
Datasheet Number: 571653 1.1.0
Use of the substance/preparation: Cleaning agent
Product Part Number: 571653 (25 liter)

Name of Supplier: Unitor ASA
Address of Supplier: Willem Barentszstraat 50
3165 AB Rotterdam-Albrandswaard
The Netherlands

Telephone: +31 10 4877 777
Fax: +31 10 4877 888
Responsible Person: Leen de Visser, Corporate Product Safety Manager, Tel.: +31 6 538 63736

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
CMA +1 703 527 3887
Greece +30 1 7793777

2 Composition/information on ingredients

Chemical Name	Concentration	CAS Number	EC Number	R Phrases	Symbols
Hydrochloric acid	20-40	7647-01-1	231-595-7	34, 37	C
Non classified ingredients	60-90				

3 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

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

- 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

Storage

- Keep only in the original container in a cool, well ventilated place (S3/9/49)
- Keep in acid store

8 Exposure controls and personal protection

Exposure Limits

- TLV (TWA) 1 mg/m³ (HCl)

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



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
- Avoid overheating
- Incompatible with alkalis (strong bases)
- Contact with nitrite (e.g. Dieseguard 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

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.

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

14 Transport information (....)


Corrosive

UN

Proper Shipping Name: Hydrochloric acid, solution
 UN No.: 1789

Hazard Class: 8 Packing Group: II

Road/Rail (ADR/RID)

Proper Shipping Name: Hydrochloric acid, solution
 ADR UN No.: 1789

ADR Hazard Class: 8 Tremcard: 80GC1789-II

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

14 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

(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

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)