



SAFETY DATA SHEET

HYDROCHLORIC ACID >25%

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	HYDROCHLORIC ACID >25%
Product number	22884
Synonyms; trade names	HYDROGEN CHLORIDE SOLUTION, MURIATIC ACID, VO-pH 8120, HYDROCHLORIC ACID 30% SOL, HYDROCHLORIC ACID 30% SOL BSF, HYDROCHLORIC ACID 32% SOL, HYDROCHLORIC ACID 33% SOL, HYDROCHLORIC ACID FG 36% SOL, HYDROCHLORIC ACID HG 36% SOL, HYDROCHLORIC ACID 25%, HYDROCHLORIC ACID PTM, HYDROCHLORIC ACID 33% PPA, HYDROCHLORIC ACID 34%, HYDROCHLORIC ACID 37% SOL, HYDROCHLORIC ACID 32% UNI 939:2004, HYDROCHLORIC ACID 28%, HYDROCHLORIC ACID HG 36% SOL CABB, HCL 36% AR, HCL 36% BP, HYDROCHLORIC ACID 36%, HYDROCHLORIC ACID 36% CZ, HYDROCHLORIC ACID 30% FCC ED.7, HYDROCHLORIC ACID 36% FCC ED.7, HYDROCHLORIC ACID 33% FCC ED.7, HYDROCHLORIC ACID 30% AD, HYDROCHLORIC ACID 33% SOL O&G, HYDROCHLORIC ACID HG36%SOL CABB, HYDROCHORIC ACID 33 % SOL, HYDROCHLORIC ACID MIN. 32%, HYDROCHLORIC ACID 33% HG SOL
REACH registration number	01-2119484862-27-XXXX
CAS number	7647-01-0
EU index number	017-002-01-X
EC number	231-595-7

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

Identified uses	Chemical Intermediate pH control Chemicals used in the synthesis and / or formulation of industrial products Industrial application
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1.3. Details of the supplier of the safety data sheet

Supplier	Univar Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 sds@univar.com +44 1274 267306
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1.4. Emergency telephone number

Emergency telephone	SGS - +32 (0)3 575 55 55 (24h)
Sds No.	22884

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC/1272/2008)

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Physical hazards	Met. Corr. 1 - H290
Health hazards	Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
Environmental hazards	Not Classified

Classification (67/548/EEC or 1999/45/EC) C;R34. Xi;R37.

2.2. Label elements

EC number 231-595-7

Pictogram



Signal word Danger

Hazard statements
 H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.

Precautionary statements
 P260 Do not breathe vapour/ spray.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances

Product name	HYDROCHLORIC ACID >25%
REACH registration number	01-2119484862-27-XXXX
EU index number	017-002-01-X
CAS number	7647-01-0
EC number	231-595-7
Composition comments	The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse mouth - Let fasting Do not induce vomiting. Get medical attention.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

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Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation May cause coughing and difficulties in breathing.

Ingestion May cause chemical burns in mouth, oesophagus and stomach.

Skin contact May cause serious chemical burns to the skin.

Eye contact Severe irritation, burning and tearing.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards Hydrogen chloride (HCl).

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. Provide adequate ventilation.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with inert, damp, non-combustible material. Flush contaminated area with plenty of water. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation. Eye wash facilities and emergency shower must be available when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed. Keep only in the original container.

Storage class Corrosive storage.

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7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m³ gas and aerosol mists

Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m³ gas and aerosol mists

WEL = Workplace Exposure Limit

Ingredient comments

WEL = Workplace Exposure Limits

DNEL

Workers - Inhalation; Long term local effects: 8 mg/m³

Workers - Inhalation; Short term local effects: 15 mg/m³

PNEC

- Fresh water; 36 mg/l

- Marine water; 36 mg/l

- Intermittent release; 45 mg/l

- STP; 36

8.2. Exposure controls

Protective equipment



Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

Nitrile rubber (0.38 - 0.425mm, Breakthrough time 4 - 8h), Butyl rubber (0.3 - 0.5mm, Breakthrough time >8h), Viton (0.7mm, Breakthrough time >8h). EN 374

Other skin and body protection

Wear rubber apron. Wear rubber footwear. Provide eyewash station and safety shower.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Use respiratory equipment with gas filter, type K. EN 136/140/145/143/149

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Fuming liquid. Liquid.
Colour	Colourless.
Odour	Acidic.
pH	pH (concentrated solution): 1
Melting point	~ -68 @ 25% ~ -25 @ 38%°C
Relative density	1.127 - 1.190 @ °C
Solubility(ies)	Soluble in water.
Partition coefficient	log Kow: -2.65

9.2. Other information

Other information Not determined.

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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Hydrogen chloride (HCl).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Respiratory sensitisation

Respiratory sensitisation Data lacking.

Skin sensitisation

Skin sensitisation Data lacking.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Genotoxicity - in vivo Negative.

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility Data lacking.

Specific target organ toxicity - single exposure

STOT - single exposure Data lacking.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Data lacking.

Inhalation Irritating to respiratory system. Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion Causes burns. Swallowing concentrated chemical may cause severe internal injury. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact Causes burns.

Eye contact Causes burns. May cause blurred vision and serious eye damage.

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Medical symptoms Severe irritation, burning and tearing. Burning sensation in mouth.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute toxicity - fish LC₅₀, 96 hours: 20.5 mg/l, *Lepomis macrochirus* (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.45 mg/l, *Daphnia magna*

Acute toxicity - aquatic plants EC₅₀, 72 hours: 0.73 mg/l, Freshwater algae

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient log Kow: -2.65

12.4. Mobility in soil

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General Wear protective clothing as described in Section 8 of this safety data sheet.

14.1. UN number

UN No. (ADR/RID) 1789

UN No. (IMDG) 1789

UN No. (ICAO) 1789

UN No. (ADN) 1789

14.2. UN proper shipping name

Proper shipping name (ADR/RID) HYDROCHLORIC ACID

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Proper shipping name (IMDG) HYDROCHLORIC ACID

Proper shipping name (ICAO) HYDROCHLORIC ACID

Proper shipping name (ADN) HYDROCHLORIC ACID

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C1

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels**14.4. Packing group**

ADR/RID packing group II

IMDG packing group II

ADN packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2R

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Inventory Information EINECS

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15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	29/06/2016
Revision	06
Supersedes date	14/06/2016
SDS number	22884
Version number	2.000
SDS status	Approved.
Signature	Lisa Bland
Risk phrases in full	R34 Causes burns. R37 Irritating to respiratory system.
Hazard statements in full	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H335 May cause respiratory irritation.