



AMON KİMYA

MATERIAL SAFETY DATA SHEET

DOCUMENT NO: AK-SPEC-014

PAGE : 1 / 9

REVISION NO: 01

DIST.DATE : 11.01.2022

HYDROCHLORIC ACID

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

1.1. Product identifier

Product name Hydrochloric Acid 31 -33 %
CAS number 7647-01-0
EU index number 017-002-00-2

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

Identified uses No information available.
Application of the substance /
synthesis the mixture Chemicals for
Uses advised against No information available.

1.3. Details of the supplier of the safety data sheet

Supplier: Amon Kimya ve Makine
San. Tic. Ltd. Şti.

Address: Çay Mah. 5 Temmuz Cad. Özsüren Plaza No:9
Kat:4 D:20
Iskenderun / Hatay / TÜRKİYE –
www.amonkimya.com.tr

1.4. Emergency telephone number

Emergency telephone: +90 326 617 26 17

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification (EC 1272/2008)

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

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.



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Precautionary statements P260 Do not breathe vapour/ spray.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/ container in accordance with national regulations.

Contains hydrogen chloride

2.3. Other hazards

Results of PBT and vPvB assessment: Not applicable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

hydrogen chloride	30-60%
CAS number: 7647-01-0	EC number: 231-595-7
Classification Met. Corr. 1 - H290 Skin Corr. 1A - H314 STOT SE 3 - H335	

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Inhalation IF INHALED: Place unconscious person on their side in the recovery position and ensure breathing can take place. Move affected person to fresh air at once. Get medical attention immediately.
Ingestion IF SWALLOWED: Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Remove person to fresh air and keep comfortable for breathing. Do not induce vomiting. Get medical attention immediately.
Skin contact IF ON SKIN: Wash skin thoroughly with soap and water or use an approved skin cleanser.
Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses and open eyelids wide apart. Get medical attention.

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

General information No information available.

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

Notes for the doctor No information available.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray, dry powder or carbon dioxide. Alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

Specific hazards Toxic gases or vapours. 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 Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

For non-emergency personnel Keep unnecessary and unprotected personnel away from the spillage.

6.2. Environmental precautions

Environmental precautions Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage to prevent material damage. Contain spillage with sand, earth or other suitable non-combustible material. Collect and dispose of spillage as indicated in Section 13. Provide adequate ventilation.

6.4. Reference to other sections

Reference to other sections Follow precautions for safe handling described in this safety data sheet. For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate general and local exhaust ventilation. Prevent formation of aerosols.

Information about fire - and explosion protection No special treatment required.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles No special requirements.

Storage precautions Store in tightly-closed, original container in a dry and cool place.

7.3. Specific end use(s)

Specific end use(s) No information available.

SECTION 8: Exposure controls/Personal protection



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8.1. Control parameters

MAK (Germany)/MAK (EU) Long-term value: 200 mg/m³, 300 ppm

8.2. Exposure controls

Protective equipment



Personal protection

Keep away from food and drink. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Avoid contact with eyes. Avoid contact with skin.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

Wear protective gloves. It is recommended that chemical-resistant, impervious gloves are worn. Wear protective gloves made of the following material: Nitrile rubber. Rubber (natural, latex). Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.

Other skin and body protection

Wear protective clothing.

Hygiene measures

Keep away from food, drink and animal feeding stuffs. Wash hands thoroughly after handling. Avoid contact with skin, eyes and clothing. Use appropriate skin cream to prevent drying of skin. If ventilation is inadequate, suitable respiratory protection must be worn.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Wear self-contained breathing apparatus.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Fluid
Colour	According to product specification
Odour	Characteristic.
pH	<1
Melting point	Not determined.
Initial boiling point and range	107 °C
Flash point	Not applicable.
Vapour pressure	12 hPa @20°C
Vapour density	1.12 g/cm ³ @20°C
Solubility(ies)	Miscible with water.
Auto-ignition temperature	Product is not self-igniting



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Viscosity	Not determined.
Explosive properties	There are no chemical groups present in the product that are associated with explosive properties.
Organic solvents	0.0%
VOC (EC)	0,00%

9.2. Other information

Other information No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

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

Thermal decomposition / conditions to be avoided Does not decompose when used and stored as recommended. To avoid thermal decomposition do not overheat.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

Conditions to avoid No information available.

10.5. Incompatible materials

Materials to avoid The following materials may react strongly with the product: Aluminium. Amines. Inorganic hydrides. Alkali metals. Aldehydes. Carbides, metals potassium permanganate, strong alcaics, saltes of halogeneoxygene acids, and sulfides

10.6. Hazardous decomposition products

Hazardous decomposition No known hazardous decomposition products. products

SECTION 11: Toxicological information

11.1. Information on toxicological effects Acute toxicity - oral

Notes (oral LD₅₀) 900 mg/kg, Oral, Rabbit

Skin corrosion/irritation

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/irritation

Serious eye damage/irritation May cause serious eye damage.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation



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Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory system irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

SECTION 12: Ecological information

General Notes Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

12.1. Toxicity

Toxicity No information available.

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates No information available.

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulative potential No information available.

12.4. Mobility in soil

Mobility No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not applicable.

12.6. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations



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13.1. Waste treatment methods

General information External recovery, treatment, recycling and disposal of waste should comply with all applicable local and/or national regulations.

European waste catalogue: 06 01 02* hydrochloric acid

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1789

UN No. (IMDG) 1789

UN No. (ICAO) 1789

14.2. UN proper shipping name

Proper shipping name (ADR/RID) HYDROCHLORIC ACID

Proper shipping name (IMDG) HYDROCHLORIC ACID

Proper shipping name (ICAO) 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

Transport labels



14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

IMDG Code segregation group 1. Acids

EmS F-A, S-B



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ADR transport category	2	
Emergency Action Code	2R	
Hazard Identification Number (ADR/RID)	80	
Tunnel restriction code	(E)	
Segregation Code:	SG35 Stow "separated from" acids.	
IMDG ; DOT- Stowage Location & Category	E	
Transportation Additional Information: ADR/IMDG/DOT Excepted Quantities (EQ):		Code : E2
Limited Quantities (LQ):		1 L
Abbreviations and acronyms used in the safety data sheet	<p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association"(IATA).</p> <p>ICAO: International Civil Aviation Organisation</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>IATA: International Air Transport Association.</p> <p>GHS: Globally Harmonized System.</p> <p>EINECS: European Inventory of Existing Commercial and Chemical Substances</p> <p>CAS: Chemical Abstracts Service.</p> <p>VOC: Volatile Organic Compounds (USA,EU)</p> <p>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. Met. Corr.1: Corrosive to metals, Hazard Category 1</p> <p>Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B</p> <p>Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1</p> <p>STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3</p> <p>Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.</p>	30 ml
Revision comments	SECTION 01: Identification of the substance/mixture and of the company/undertaking SECTION 16: Other Information	
Revision date	01/01/2022	
Revision	03	
Supersedes date	13/09/2020	



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SDS number 4590

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.

Maximum Net Quantity per Inner Packaging:

Maximum Net Quantity per Outer Packaging:

500
ml

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code Transport in bulk according to Not applicable.
Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information