

# Safety Data Sheet

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 26.08.2022 Version 2

# TEKKİM

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

### 1.1 Product identifier

Catalog No. TK.911011.00000  
Product Name Hydrochloric Acid %37  
Cas no 7647-01-0

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

#### 1.2.1. Relevant identified uses

Industrial uses. Scientific research and development. Use as laboratory reagent.

#### 1.2.2. Uses advised against

No information available.

### 1.3. Details of the supplier of the safety data sheet

Name TEKKİM KİMYA SAN. TİC. LTD. ŞTİ.  
Street ORGANİZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA  
Telephone 0224 243 21 71  
E-mail erhan@tekkim.com.tr  
Company Representative Erhan DİLER

**1.4 Emergency Telephone Number +90 506 990 36 86**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Corrosive to metals, Category 1  
Skin corrosion, Subcategory 1B  
Serious eye damage, Category 1  
Specific Target Organ Toxicity - Single exposure, Category 3, Respiratory system

For the full text of the H and EUH statements in this section, see section 16.

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms



Signal word (SEA)

DANGER


Hazard Statements (SEA)

H290 May corrode metals.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.

Precautionary Statements (SEA)



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## Prevention

- P234 Store only in original container.  
P261 Avoid breathing dust / mist / gas / mist / vapor / spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Intervention

- P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/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.

## SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

### 3.1 Maddeler

EC No	231-595-7
Molar mass	34.46 g/mol
Cas No	7647-01-0
Concentration	(>= 25 % - < 50 % )

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Following inhalation	Remove casualty to fresh air and keep warm and at rest..
Following skin contact	Wash with plenty of water. Take off contaminated clothing.
Following eye contact	In case of contact with eyes, rinse immediately with plenty of water and consult an ophthalmologist.
Following ingestion	Please give up to two glasses of water. Get immediate medical attention.. Do not induce vomiting..

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

The most important known symptoms and effects are described in the labelling

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

No information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

### 5.2 Special hazards arising from the substance or mixture

In case of fire it can be formed freely: Hydrogen chloride gas. It is not flammable. All-round fire can release dangerous vapours.

### 5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

### 5.4 Additional information


Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures



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Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

## 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

## 6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area.

## 6.4 Reference to other sections

Disposal: see section 13.

## 6.5 Additional information

Clear spills immediately.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

*Advices on safe handling*

Observe label precautions. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

*Advices on general occupational hygiene*

Change contaminated clothing. Wash hands after working with substance.

### 7.2 Conditions for safe storage, including any incompatibilities

*Storage conditions*

Keep container tightly closed in dry and well-ventilated places. Metal packaging should not be used.

### 7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

#### Personal protection equipment

*Eye/face protection*

Fully fitting safety glasses

*Hand protection*

Hand protection

Full contact

Glove material : Nitrile rubber

Glove thickness : 0,11 mm

Break through time : >480minute

Splash contact :

Glove material : natural latex

Glove thickness : 0,60 mm


Break through time : >120minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374

*Other skin protection*



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Acid-resistant protective clothing

## Respiratory protection

Required when vapors / aerosols are generated.  
Recommended Filter type: filter E- (P2)

## SECTION 9: Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	Angle
Odour threshold	0,8 - 5 mpb (Hydrogen chloride gas)
pH value	< 1 20 °C
Melting point/freezing point	No information.
Freezing point	-30 °C
Initial boiling point and boiling range	No information.
Flash point	It doesn't shine.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Upper/lower flammability or explosive limits	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	190 hPa 20 °C
Vapour density	No information.
Density	1.19 g/cm <sup>3</sup> 20 °C
Relative density	No information.
Water solubility (g/l)	Soluble.
Fat solubility (g/l)	No information.
Partition coefficient: n-octanol/water	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.

## Viscosity

Kinematic viscosity	No information.
Dynamic viscosity	2,3 mPa.s 20 °C
Explosive properties	Not classified as explosive.
Oxidising properties	No information.

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

It is corrosive in contact with metals.

### 10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

Exothermic reaction with amines, potassium permanganate, salts of oxyhalogenic acids, semimetallic oxides, semi-metallic hydrogen compounds, aldehydes, vinylmethyl ether.

Risk of explosion or flammable gas formation with carbides, lithium silicide, Fluorine!

In contact with aluminum, hydrides, formaldehyde, metals, strong alkalis, sulphides, it creates dangerous gases or vapors.

Alkali metals, conc. There is a risk of explosion with sulfuric acid.

### 10.4 Conditions to avoid

In case of warming.

### 10.5 Incompatible materials

As a result of the reaction of metals with metal alloys, hydrogen is released.



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## 10.6 Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity

Symptoms: Risk of perforation of the esophagus and stomach with severe burning of the mouth and throat if swallowed.

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages :, damage to respiratory system

Skin irritation

Its mixture causes burns.

Eye irritation

The mixture causes serious eye damage. Blindness risk!

Specific Target Organ Toxicity - Single exposure

The mixture may cause respiratory irritation.

Target Organs: Respiratory system

### 11.2 Additional information

After receiving:

After the secrecy period:

cardiovascular conditions

Handle in accordance with good industrial hygiene and safety practice.

Components

Hydrochloric acid

Skin irritation

Rabbit

Result: Abrasive

OECD Test Guideline 404

Eye irritation

Rabbit

Result: Irreversible effects on the eyes

OECD Test Guideline 405

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish

Lepomis macrochirus (Bluegill sunfish): 20.5 mg / l; 96 hrs

OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

EC50: 1.3 mg / l; 48 hrs

OECD Test Guideline 202

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.


### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment



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Substance does not meet the criteria for PBT or vPvB.

## 12.6 Other adverse effects

It forms corrosive mixtures even if diluted. Harmful effect due to pH change.  
Discharge into environment must be avoided

## SECTION 13: Disposal considerations

### Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

## SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
<b>14.1 UN number</b> UN 1789	UN 1789	UN 1789	UN 1789	UN 1789
<b>14.2 UN proper shipping name</b> HYDROCHLORIC ACID 8, II, Segregation Group: 1 (Acids)	HYDROCHLORIC ACID 8, II, Segregation Group: 1 (Acids)	HYDROCHLORIC ACID 8, II, Segregation Group: 1 (Acids)	HYDROCHLORIC ACID 8, II, Segregation Group: 1 (Acids)	HYDROCHLORIC ACID 8, II, Segregation Group: 1 (Acids)
<b>14.3 Transport hazard class(es)</b> 8	8	8	8	8
<b>14.4 Packing group</b> II	II	II	II	II
<b>14.5 Environmental hazards</b> YES	YES	YES	YES	YES
No information available.	No information available.	No information available.	No information available.	No information available.

## 14.6 Special Precautions for User:

No information available.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental legislation specific for the substance or mixture

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

## SECTION 16: Other informations

### Full text of H statements

H290 May corrode metals.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.



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Person Who Prepared the Safety Data Sheet:

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