



SAFETY DATA SHEET  
**0.05 M Hydrochloric acid**

## 1. Chemical product & Company Identification.

### Product details

Chemical Name : 0.05 M Hydrochloric acid

### Name of Manufacturer

Ya Thai Chemical Co., Ltd. 78/9 Moo 5 Takam, Bangpakong, Chachoengsao 24130  
THAILAND

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## 2. Hazard Identification.

Health hazards : Corrosive to metals - Category 1

Label element

Symbol



Signal word

:

**Warning**

Hazard

:

H290 May be corrosive to metals.

statements

Precautionary Statements

Prevention

:

P234 Keep only in original container.

Response

:

P390 Absorb spillage to prevent material damage.

Storage

:

P406 Store in a corrosive resistant/container with a resistant inner liner.

Disposal

:

P501 Dispose of contents/container in accordance with local/ regional/national/ international regulations.

## 3. Composition/Information on Ingredients.

Chemical Name : 0.05 M Hydrochloric acid

CAS Number : 7647-01-0

EC Number : 231-595-7

Chemical Formula : HCl

Molecular Weight : 36.46 g/mol

## 4. First Aid Measures.

Eye Contact : Rinse out with plenty of water.

Skin Contact : Take off immediately all contaminated clothing.

:

Rinse skin with water/ shower.

Inhalation

:

If breathed in, move person into fresh air.

Swallowing

:

Immediately make victim drink of water, consult doctor if feeling unwell.

General Information : No special measures required.

## 5. Fire Fighting Measures.

### Suitable extinguishing agents

Use fire extinguishing methods suitable to surrounding conditions and the product is not flammable.

### Protective equipment

Special protective equipment for firefighters.

Wear self-contained respiratory protective device and wear fully protective suit.

## 6. Accidental Release Measures.

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

### Environmental precautions

No special environmental precautions required.

### Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

## 7. Handling and Storage.

### Precautions for safe handling

Avoid inhalation of vapor or mist.

### Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

No metal containers.

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

## 8. Personal Protection.

### Exposure controls

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.

### General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

### Personal protective Equipment (PPE)

Material of gloves : Nitrile rubber.

Eye protection : Safety glasses.

Respiratory protection : Required when vapor/aerosols are generated.

## 9. Physical and Chemical Properties.

Appearance	:	Clear, liquid
Color	:	Colorless
Odor	:	Odorless
pH	:	0.00 - 2.00
Specific gravity	:	1.00 - 1.10
Melting point / range	:	No data available
Boiling point / range	:	No data available
Flash point	:	Not flammable

Self-igniting	:	Product is not self-igniting
Danger of explosion	:	Product does not present an explosion hazard
Water solubility	:	Soluble (at 25 °C)

## 10. Physical Hazard (Stability & Reactivity).

### Stability and Reactivity

The product is chemically stable under standard ambient conditions (room temperature).

### Possibility of hazardous reactions

Generates dangerous gases or fumes in contact with metals.  
The generally known reaction partners of water.

### Incompatible materials

Metals, metal alloys.

## 11. Toxicological Information.

### Primary irritant effect

Skin	:	Slight irritation.
Eyes	:	Slight irritation.
Sensitization	:	No sensitizing effects known.

## 12. Ecological Information.

### Toxicity

No information available.

### Bio-accumulative potential

No information available.

COD and BOD value will increase when flushed into sewers or streams.

Slightly hazardous for water, do not allow product to reach ground water, water course or sewage system.

## 13. Disposal Consideration.

### Waste Disposal

Dispose after activated sludge process.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## 14. Transport Information.

### International regulation

Un Class	:	8
UN Number	:	1789
UN Proper shipping name	:	HYDROCHLORIC ACID
Packing group	:	III

## 15. Regulatory Information.

Follow all regulation in your country.

## 16. Other Information.

This information herein is given in good faith, but no warranty, express or implied, is made. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein. We can not quarantine that These are the only hazards which exist.