

## SAFETY DATA SHEET 0.1 N HCI

## **1.** Identification of the substance and of the supplier

Product identifier Chemical name Recommended use of the chemical and restrictions on use Manufacturer/ supplier details Company name Company address

0.1 N HCI

Phone number Fax Emergency phone number Ya Thai Chemical Co., Ltd. 78/9 Moo 5 Takam, Bangpakong, Chachoengsao 24130 THAILAND 66-3857-4400 66-3857-3700

## 2. Hazard Identification

### GHS classification of the substance/ mixture Health hazards Skin corrosion/ irritation Category 2 Other hazard than mentioned above are "Not classified", "Classification not possible" or "Not applicable".

## GHS label elements

**Pictogram** 



#### Signal word Hazard statements

Causes skin irritation.

### **Precautionary statements**

## Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves.

## Response

IF ON SKIN: Wash with plenty water. If skin irritation occurs: Get medical help. Take off contaminated clothing and wash it before reuse.

## **3.** Composition/ Information on Ingredients

Substance/ mixture Mixture (liquid) Components

Hydrochloric acid

**CAS No.** 7647-01-0

Concentration % 2-3

	Water	7732-18-5	97-98
4.	First Aid Measures		
	Description of first aid measure		
	Inhalation	Move person into fresh air. If n artificial respiration. Consult a	0.0
	Skin contact	Take off contaminated clothing immediately. Wash off with so water. Consult a physician.	
	Eye contact	Check remove contact lenses Rinse thoroughly with plenty o minutes and consult a physicia	f water for at least 15
	Ingestion	Rinse mouth with water. Do Never give anything by mouth person. Consult a physician	<u> </u>
	-		

Most important symptoms and effects, both acute and delayed

Irritating to the eyes, skin and respiratory tract.

Indication of any immediate medical attention and special treatment needed Treat symptomatically.

# 5. Fire Fighting Measures

### **Extinguishing media**

Suitable extinguishing media

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

No information available.

## Special hazards arising from the substance or mixture

Gives off irritating or toxic fumes (or gases) in a fire.

When heated to decomposition it emits toxic fumes of chlorine (hydrogen chloride gas).

## Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus (SCBA) for firefighting.

# 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment as required.

Keep unprotected persons away.

In case of insufficient ventilation, wear suitable respiratory equipment.

## **Environmental precautions**

Do not let product enter drains. Keep water away from release.

Stop or control the leak, if this can be done without undue risk.

## Methods and materials for containment and cleaning up

Liquid form, collect for reclamation or absorb in vermiculite, dry sand, earth, or a similar material.

For small spills, add absorbent or sand, scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

# 7. Handling and Storage

## Precautions for safe handling

Use personal protective equipment as required.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

In case of insufficient ventilation, wear suitable respiratory equipment.

## Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep container in room temperature, well-ventilated area. Avoid storage in direct sunlight.

# 8. Exposure Controls/ Personal Protection

## **Control parameters**

Component	ACGIH (TLV)	NIOSH (REL)	OSHA (PEL)
Hydrochloric acid 7647-01-0	- Ceiling: 2 ppm [2000]	<ul> <li>Ceiling: 5 ppm (7 mg/m<sup>3</sup>)</li> <li>IDLH: 50 ppm</li> </ul>	- Ceiling: 5 ppm (7 mg/m <sup>3</sup> ) see 29 CFR 1910.1000 Table Z-1
ACGIH:	American Conference of Governmental Industrial Hygienists		

 ACGIH:
 American Conference of Governmental Industrial Hygienists

 OSHA:
 Occupational Safety and Health Administration

 NIOSH IDLH:
 The National Institute for Occupational Safety and Health - Immediately Dangerous to Life or Health

## Appropriate engineering controls

Use ventilation, local exhaust ventilation.

## Personal protective equipment

Respiratory protectionUse local exhaust or respirator masks.Skin protectionProtective gloves.Eye/ face protectionWear safety goggles, safety glasses.Body protectionChemical suit, boots, aprons.

## Work/ hygienic practices

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

Remove contaminated clothing and protective equipment before entering eating areas.

## 9. Physical and Chemical Properties

Appearance and colour Liquid, colourless Odour Strong pungent acid Odour threshold Not available <1.00 bН Not available Melting point/ freezing point Initial boiling point and boiling range > 100 °C Flash point Not flammable **Evaporation** rate Not available Flammability (solid, gas) Not available Upper/lower flammability or explosive limits Not available Vapour pressure Not available Vapour density Not available Specific gravity 1.00-1.05 at 25 °C Soluble in water Water solubility Partition coefficient: n-octanol/water log Pow Not available Not available Auto ignition temperature Decomposition temperature Not available

Viscosity

#### Not available

## 10. Stability and Reactivity

#### Reactivity

Stable under recommended storage conditions.

**Chemical stability** 

Not available.

### Possibility of hazardous reactions

Will not occurred.

#### **Conditions to avoid**

Incompatible products and excess heat.

#### Incompatible materials

Strong oxidizing agents, reducing agents, bases and metals.

### Hazardous decomposition products

When heated to decomposition it emits toxic fumes of chlorine (hydrogen chloride gas).

# 11. Toxicological Information

Numerical measures of toxicity Classification of health hazards Acute toxicity Acute oral toxicity Acute dermal toxicity Acute inhalation toxicity

Skin corrosion/ irritation Serious eye damage/ eye irritation

Respiratory or skin sensitization

Germ cell mutagenicity

## Carcinogenicity

Not classified. Not classified. Not classified. Causes skin irritation. All ingredients in this mixture are not serious eye damage/ eye irritation effect. All ingredients in this mixture are not respiratory or skin sensitization effect. All ingredients in this mixture are not germ cell mutagenicity effect. All ingredients in this mixture are not

carcinogenicity effect.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Components	ACGIH	IARC	NTP	OSHA
Hydrochloric acid 7647-01-0	Group A4	Group 3	Not listed	Not listed
- ACGIH (American Conference of Governmental Industrial Hygienists):			Group A1: Confirmed human carcinogen Group A2: Suspected human carcinogen Group A3: Confirmed animal carcinogen with unknown relevance to humans Group A4: Not classifiable as a human carcinogen	
- IARC (International Agency for Research on Cancer):			Group 1: Carcinogenic to humans Group 2A: Probably carcinogenic to humans Group 2B: Possibly carcinogenic to humans Group 3: Not classifiable as to its carcinogenicity to humans	
<ul> <li>NTP (National Toxicology Program, U.S. Department of Health and Human Services):</li> </ul>		Group K: Known to be human carcinogens Group R: Reasonably anticipated to be human carcinogens		
- OSHA (Occupational S Department of Labor):	/	istration of the US	OSHA regulated chemicals	marked with "X"
Reproductive tox	icity	All ingredie toxicity effe	nts in this mixture are ct.	not reproductive

Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard

All ingredients in this mixture are not specific target organ toxicity (single exposure) effect. All ingredients in this mixture are not specific target organ toxicity (repeated exposure) effect. All ingredients in this mixture are not aspiration hazard effect.

# *12.* Ecological Information

### Ecotoxicity

Components	Algae/ aquatic plants	Fish	Crustacea
Hydrochloric acid 7647-01-0	-	<ul> <li>Gambusia affinis (western mosquitofish): LC<sub>50</sub> 282 mg/L/96hr<sup>static</sup></li> </ul>	<ul> <li>Daphnia magna (water flea) EC₅₀: 56 mg/L/72hr</li> </ul>

Acute (short-term) aquatic hazard

 Hydrochloric acid: LC<sub>50</sub> 282 mg/L/96hr: Gambusia affinis (fish)
 Long-term aquatic hazard
 Persistence and degradability
 Bio-accumulative potential
 Mobility in soil Summation method: EC50<sub>mix</sub>: >100 mg/l = Classified not possible

Not classified Not available Not available Not available Not available Not available

## 13. Disposal Consideration

Other adverse effects

**Environmental effects** 

Waste treatment methods

Dispose in accordance with local/ national/ international regulations.

**Contaminated packaging** 

Dispose of as unused product.

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

## 14. Transport Information

International regulation	
UN number	UN 1789
UN proper shipping name	Hydrochloric acid
Transport hazard class	8
Packaging group	II
Environmental hazards	Not available
Transport in bulk	Not available
Special precautions for user	Not available

# 15. Regulatory Information

Safety, health and environmental regulations/ legislation specific for the substance or mixture

Inaliand	
Notification of Ministry of Industry Subject: List of hazardous substances B.E. 2556 (2013) (Annex 5.1)	Hydrochloric acid CAS 7647-01-0 (when concentration >15% w/w is classified as type 3, but concentration specified in this product not classified as type 3) This chemical not listed on the hazardous substances inventory.
(2013) (Alliex 3.1)	classified as type 3)

## Thailand

Notification of Ministry of Labour

Hydrochloric acid CAS 7647-01-0 (No.893)

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Subject: List of hazardous chemicals B.E. 2556 (2013)

Is listed on the hazardous chemicals inventory.

## Chemical safety assessment

For this product a chemical safety assessment was not carried out.

# 16. Other Information

Created

## Reference

- 1) NIH (National Institutes of Health) Web Site: https://pubchem.ncbi.nlm.nih.gov/
- 2) http://www.inchem.org/
- 3) https://www.osha.gov/chemicaldata/index.html

July 19, 2022

- 4) https://cfpub.epa.gov/ecotox/
- Thailand: Notification of Ministry of Industry Subject: List of hazardous substances B.E. 2556 (2013) (Annex 5.1)
- Thailand: Notification of Ministry of Labour Subject: List of hazardous chemicals B.E. 2556 (2013)

### NOTE:

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 cannot quarantine that These are the only hazards which exist.

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#### Finishing First

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