



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 20-Feb-2023 Revision Number 3.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	VS-6010 0.22mol/L Hydrochloric Acid
Product Code	225-01511

Manufacturer FUJIFILM Wako Pure Chemical Corporation

> 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964

**Supplier** FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

**Emergency telephone number** Recommended uses and

+81-6-6203-3741 / +81-3-3270-8571 For research use only

restrictions on use

# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification Classification of the substance or mixture Skin corrosion/irritation Serious eye damage/eye irritation

Category 2 Category 2A

### **Pictograms**



Signal word

Warning

### **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

### **Precautionary statements-(Prevention)**

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

- Precautionary statements-(Response)
   IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
  - If eye irritation persists: Get medical advice/attention
  - IF ON SKIN: Wash with plenty of soap and water
  - If skin irritation occurs: Get medical advice/attention
  - · Take off contaminated clothing and wash before reuse

### Precautionary statements-(Storage)

Not applicable

# Precautionary statements-(Disposal)

Not applicable

**Others** 

Other hazards Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Water	99.20	18.02	N/A	N/A	7732-18-5
Hydrochloric Acid	0.80	36.46	(1)-215	*	7647-01-0

Note on ISHL No.: \* in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

# **Section 4: FIRST AID MEASURES**

### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

### **Protection of first-aiders**

Use personal protective equipment as required.

# **Section 5: FIRE FIGHTING MEASURES**

# Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

# Unsuitable extinguishing media

No information available

### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### Special extinguishing method

No information available

# Special protective actions for

# fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

# **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

### Methods and materials for contaminent and methods and materials for cleaning up

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

# Recoverly, neutralization

No information available

### Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

# Section 7: HANDLING AND STORAGE

### Handling

#### **Technical measures**

Avoid contact with alkaline substances. Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

# Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed.

Safe packaging material

Polyethylene

Incompatible substances

Alkali

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

**Exposure limits** 

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Hydrochloric Acid	5ppm(7.5mg/m <sup>3</sup> )	N/A	Ceiling: 2 ppm
7647-01-0			

Personal protective equipment

Respiratory protection Protective mask Protection Protection gloves

Eye protection protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Form** 

ColorcolorlessTurbidityclearAppearanceliquid

Odor

No data available
Melting point/freezing point

Boiling point, initial boiling point and boiling range
Flammability

Evaporation rate:

Flammability (solid, gas):

no data available
no data available
no data available
no data available

Upper/lower flammability or

explosive limits

Upper:

Lower:

Plash point

no data available
no data available
no data available

no data available **Auto-ignition temperature: Decomposition temperature:** no data available Strongly acidic pН no data available Viscosity (coefficient of viscosity) Dynamic viscosity no data available

**Solubilities** water, Ethanol, Diethyl ether: freely soluble. n-Octanol/water partition coefficient:(log Pow) no data available

no data available Vapour pressure Specific Gravity / Relative density no data available no data available Vapour density Particle characteristics no data available

# **Section 10: STABILITY AND REACTIVITY**

# Stability

no data available Reactivity

Chemical stability Stable under recommended storage conditions.

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Alkali

Hazardous decomposition products

Halides

# Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric Acid	238 mg/kg ( Rat )	>5010 mg/kg ( Rabbit )	1411 ppm ( Rat ) 4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Hydrochloric Acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
,	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Hydrochloric Acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
,	classification results.	classification results.	Classification results.

### Skin irritation/corrosion

Chemical Name Skin corrosion/irritation source information					
Hydrochloric Acid	Based on the NITE GHS classification results.				
Serious eye damage/ irritation					
a					

Chemical Name	Serious eye damage/irritation source information
Hydrochloric Acid	Based on the NITE GHS classification results.
Respiratory or skin sensitization	

Hydrochloric Acid

**Chemical Name** 

Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Hydrochloric Acid	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Hydrochloric Acid	Based on the NITE GHS classification results.
·	

Chemical Name NTP IARC ACGIH JSOH (Ja	pan)
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Respiratory or Skin sensitization source information

Based on the NITE GHS classification results.

Hydrochloric Acid	N/A	Group 1	N/A	N/A
7647-01-0		Group 3		
Reproductive toxicity				
Chemical Name		Reproducti	ve toxicity source in	formation
Hydrochloric Acid		Based on the NITE GH	S classification result	S.
STOT-single exposure				
Chemical Name		STOT -single	exposure- source i	nformation
Hydrochloric Acid		Based on the NITE GHS classification results.		
STOT-repeated exposure				
Chemical Name		STOT -repeate	ed exposure- source	information
Hydrochloric Acid		Based on the NITE GH	S classification result	S.
Aspiration hazard		•		
Chemical Name		Aspiration	Hazard source info	rmation
Hydrochloric Acid		Hydrochloric Acid Based on the NITE GH		

# **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Hydrochloric Acid	N/A	N/A	EC50 : Daphinia magna
			0.492 mg/L 48 h

# Other data

Chemical Name	Short-term (acute) hazardous to the aquatic environment source information	Long-term (chronic) hazardous to the aquatic environment source information
<b>7</b>	Based on the NITE GHS classification results.	Based on the NITE GHS classification results.

Persistence and degradabilityNo information availableBioaccumulative potentialNo information availableMobility in soilNo information availableHazard to the ozone layerNo information available

# **Section 13: DISPOSAL CONSIDERATIONS**

### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **Section 14: TRANSPORT INFORMATION**

ADR/RID Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Marine pollutant Not applicable

IMDG Not regulated

UN number

Proper shipping name: UN classfication

Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Environmentally Hazardous Not applicable

**Substance** 

# **Section 15: REGULATORY INFORMATION**

**International Inventories** 

EINECS/ELINCS - TSCA -

Japanese regulations

Fire Service Act Not applicable Poisonous and Deleterious Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57,

Para.1, Enforcement Order Art.18)

Notifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table

No.9)No.98 Not applicable

Regulations for the carriage

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable Pollutant Release and Transfer Not applicable

Register Law (~2023.3.31)

Pollutant Release and Transfer

Not applicable

Register Law (2023/4/1~)

Export Trade Control Order No.

Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2) (~2024.3.31)	Pollutant Release and Transfer Register Law (~2023.3.31)
Hydrochloric Acid 7647-01-0 ( 0.80 )	-	Applicable	•

# **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

# Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless

specified in the text. GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards **End of Safety Data Sheet**