



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 09-Feb-2023 Revision Number 3.03

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	0.2mol/L Hydrochloric Acid [CRM]		
Product Code	084-10055		
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 restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only		

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



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 rinsina
 - · 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	99.3	18.02	N/A	N/A	7732-18-5
Hydrochloric Acid	0.7	36.46	(1)-215	*	7647-01-0
Note on ISHL No.:	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 strong oxidizing agents. 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

Use personal protective equipment as required. Avoid contact with skin and eyes

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 Strong oxidizing agents

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 7647-01-0	5ppm(7.5mg/m ³)	N/A	Ceiling: 2 ppm

Personal protective equipment

Respiratory protection Hand protection Eye protection Skin and body protection Gas mask for acidic gas Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	colorless
Turbidity	clear
Appearance	liquid
Odor	no data available
Melting point/freezing point	no data available
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available

Auto-ignition temperature: Decomposition temperature: pH Viscosity (coefficient of viscosity) Dynamic viscosity Solubilities n-Octanol/water partition coefficient:(log Pow) Vapour pressure Specific Gravity / Relative density Vapour density Particle characteristics no data available no data available Strongly acidic no data available no data available water , Ethanol , ether : soluble . no data available no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivityno data availableChemical stabilityStable under recommended storage conditions.Hazardous reactionsStable under recommended storage conditions.None under normal processingStable under recommended storage conditions.Conditions to avoidStable under recommended storage conditions.Extremes of temperature and direct sunlightIncompatible materialsStrong oxidizing agentsStorag oxidizing agentsHazardous decomposition productsHalides

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
r fy di comono / tola			Based on the NITE GHS 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	Chemical Name		Skin corrosion/irritation source information		
Hydrochloric Acid	Based on the NITE GHS classification results.			sults.	
Serious eye damage/ irritation					
Chemical Name		Serious eye da	mage/irritation so	urce information	
Hydrochloric Acid	E	Based on the NITE GH	IS classification res	sults.	
Respiratory or skin sensitization					
Chemical Name		Respiratory or SI	kin sensitization s	ource information	
Hydrochloric Acid	E	Based on the NITE GHS classification results.			
Reproductive cell mutagenicity	·				
Chemical Name		germ cell m	utagencity source	e information	
Hydrochloric Acid	E	Based on the NITE GHS classification results.			
Carcinogenicity					
Chemical Name		Carcinogenicity source information			
Hydrochloric Acid		Based on the NITE G⊢	IS classification res	sults.	
Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)	

	N1/A		N1/A	N1/A
Hydrochloric Acid	N/A	Group 1	N/A	N/A
7647-01-0		Group 3		
Reproductive toxicity				
Chemical Name		Reproductiv	ve toxicity source ir	formation
Hydrochloric Acid		Based on the NITE GH	S classification resul	ts.
STOT-single exposure				
Chemical Name		STOT -single exposure- source information		
Hydrochloric Acid		Based on the NITE GHS classification results.		
STOT-repeated exposure				
Chemical Name		STOT -repeate	ed exposure- source	e information
Hydrochloric Acid		Based on the NITE GHS classification results.		ts.
Aspiration hazard				
Chemical Name		Aspiration Hazard source information		ormation
Hydrochloric Acid		Based on the NITE GHS classification results.		ts.

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
j		Based on the NITE GHS classification results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No 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

Do not reuse container

Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated -
Marine pollutant	Not applicable
IMDG UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group	Not regulated
Marine pollutant (Sea)	Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code IATA UN number Proper shipping name: UN classfication	No information available Not regulated -			
Subsidiary hazard class Packing group Environmentally Hazardous Substance	Not applicable			
Section 15: REGULATORY INFORMATION				
International Inventories EINECS/ELINCS TSCA	-			
<u>Japanese regulations</u> Fire Service Act Poisonous and Deleterious Substances Control Law Industrial Safety and Health Ac	Not applicable Not applicable tNotifiable Substances (Law Art.57-2, Enforcement Oder Art.18-2 Attached Table No.9)No.98 Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18)			
Regulations for the carriage and storage of dangerous goods in ship Civil Aeronautics Law Pollutant Release and Transfer Register Law	Not applicable			
(~2023.3.31) <u>Pollutant Release and Transfer</u> <u>Register Law</u> (2023/4/1~) Water Pollution Control Act Export Trade Control Order Air Pollution Control Law	Not applicable Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3) Not applicable Specified Substances			

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(0.7)	-	Applicable	-

Section 16: OTHER INFORMATION

Key literature references and	NITE: National Institute of Technology and Evaluation (JAPAN)
sources for data etc.	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