



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 25-Mar-2024

Revision Number 3.06

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Lanthanum Chloride Solution
Product Code	124-02351

Supplier FUJIFILM Wako Pure Chemical Corporation

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**Recommended uses** For research use only

**Restrictions on use**Seek expert judgment when using for purposes other than those recommended.

## **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Serious eye damage/eye irritation Category 1
Skin sensitization Category 1

Chronic aquatic toxicity Category 3

#### **Pictograms**



Signal word

Danger

## Hazard statements

H318 - Causes serious eye damage

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

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

- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace
- Avoid release to the environment

## Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse

## Precautionary statements-(Storage)

Not applicable

## **Precautionary statements-(Disposal)**

• Dispose of contents/container to an approved waste disposal plant

**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	<81.5	18.02	-	-	7732-18-5
Lanthanum chloride	<18	371.37	1-645	公表	10025-84-0
heptahydrate					
Hydrogen Chloride	<0.5	36.46	(1)-215	*	7647-01-0

Note on ISHL No.:

## **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.

<sup>\*</sup> in the table means announced chemical substances.

#### 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, eyes or clothing.

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
Hydrogen Chloride	Ceiling: 2 ppm	N/A	Ceiling: 2 ppm
7647-01-0	Ceiling: 3.0 mg/m <sup>3</sup>		

Personal protective equipment

Respiratory protection Protective mask

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

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

**Form** 

ColorcolorlessTurbidityclearAppearanceliquid

Odor no data available
Melting point/freezing point no data available
Boiling point, initial boiling point and boiling range
Flammability no data available
no data available

**Evaporation rate:**no data available
Flammability (solid, gas):
no data available

Upper/lower flammability or explosive limits

no data available Upper: no data available Lower: Flash point no data available no data available **Auto-ignition temperature:** no data available **Decomposition temperature:** mild acidic pН Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available

Solubilities water, Ethanol, acetone: Very soluble.

n-Octanol/water partition coefficient:(log Pow)no data availableVapour pressureno data availableSpecific Gravity / Relative densityno data availableVapour densityno data availableParticle characteristicsno data available

## **Section 10: STABILITY AND REACTIVITY**

#### **Stability**

**Reactivity** no data available

**Chemical stability** Stable under recommended storage conditions.

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials
Strong oxidizing agents

**Hazardous decomposition products** 

Metal oxides, Halides

## **Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrogen Chloride	238 - 277 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
Hydrogen Chloride	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
i i jai ogon omenae			Based on the NITE GHS Classification results.

#### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Hydrogen Chloride	Based on the NITE GHS classification results.
Contact of the state of the sta	

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information	
Hydrogen Chloride	Based on the NITE GHS classification results.	
Despiretent or okin consistention		

Respiratory or skin sensitization

GHS classification results.
G

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Hydrogen Chloride	Based on the NITE GHS classification results.
Carainaganiaity	

<u>Carcinogenicity</u>

Chemical Name	Carcinogenicity source information	
Hydrogen Chloride	Based on the NITE GHS classification results.	

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
Hydrogen Chloride	N/A	Group 3	N/A	N/A
7647-01-0				

Reproductive toxicity

Chemical Name	Reproductive toxicity source information	
Hydrogen Chloride	Based on the NITE GHS classification results.	

**STOT-single exposure** 

Chemical Name	STOT -single exposure- source information	
Hydrogen Chloride	Based on the NITE GHS classification results.	

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Hydrogen Chloride	Based on the NITE GHS classification results.	

**Aspiration hazard** 

Chemical Name	Aspiration Hazard source information	
Hydrogen Chloride	Based on the NITE GHS classification results.	

## **Section 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

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

Other data

	Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
		aquatic environment source information	aquatic environment source information
ſ	Hydrogen Chloride	Based on the NITE GHS classification	Based on the NITE GHS classification
		results.	results.

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

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**

Japanese regulations

Fire Service Act
Poisonous and Deleterious
Not applicable
Not applicable

Substances Control Law

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

Notifiable Substances (Law Art.57-2)

Industrial Safety and Health Act (

2024~)

Regulations for the carriage

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable Pollutant Release and Transfer Not applicable

**Register Law** 

(2023.4.1-)

Water Pollution Control Act Specified substances(Law Art.2 Para.4, Enforcement Order Art.3-3)

Not applicable

Export Trade Control Order Not applicable

Air Pollution Control Law Specified Substances

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Hydrogen Chloride 7647-01-0 (<0.5)	-	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.

【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

# Record of SDS revisions Disclaimer

The following contents were revised. Regulatory information.

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 Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**