



# SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 27-Mar-2023 Revision Number 4.04

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Tin(II) Chloride Dihydrate, 99.9%		
Product Code	201-09872		
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 Restrictions on use	+81-6-6203-2029 +81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.		

## Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Specific target organ toxicity (single exposure) Category 3 Respiratory irritation Specific target organ toxicity (repeated exposure) Category 1 liver, kidneys Category 2 blood system Acute aquatic toxicity Chronic aquatic toxicity

Category 3

Category 1, Category 2

Category 1 Category 1

**Pictograms** 



## Hazard statements

- H335 May cause respiratory irritation
- H410 Very toxic to aquatic life with long lasting effects
- H400 Very toxic to aquatic life
- H372 Causes damage to the following organs through prolonged or repeated exposure: liver, kidneys
- H373 May cause damage to the following organs through prolonged or repeated exposure: blood system

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

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- Avoid release to the environment

### Precautionary statements-(Response)

· Get medical advice/attention if you feel unwell

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- Collect spillage

### Precautionary statements-(Storage)

- · Store in a well-ventilated place. Keep container tightly closed
- Store locked up

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

Substance

Formula

SnCl2·2H2O

Not applicable

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Tin(II) chloride dihydrate	99.9	225.65	(1)-260	*	10025-69-1
	(subtracting				
	method)				

Note on ISHL No.:

\* in the table means announced chemical substances.

Impurities and/or Additives:

## 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

Sweep up and gather scattered particles, and collect it in an empty airtight container.

## 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 acids. 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

Incompatible substances

Safe packaging material

Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Store locked up. Glass

Strong acids

## 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
Tin(II) chloride dihydrate	N/A	N/A	TWA: 2 mg/m <sup>3</sup> Sn except
10025-69-1			Tin hydride

### Personal protective equipment

**Respiratory protection** Hand protection Eye protection Skin and body protection Dust mask (JIS T8151) chemical protective gloves (JIS T 8116) 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

white

crystals Appearance Odor no data available 37.7 °C Melting point/freezing point 652 °C Boiling point, initial boiling point and boiling range no data available Flammability **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 Auto-ignition temperature: no data available no data available **Decomposition temperature:** no data available рΗ Viscosity (coefficient of viscosity) no data available Dynamic viscosity no data available Solubilities Ethanol : freely soluble . dil. hydrochloric acid : soluble . n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available Specific Gravity / Relative density 2.71 g/cm3 Vapour density no data available **Particle characteristics** no data available

## Section 10: STABILITY AND REACTIVITY

Stability

Reactivityno data availableChemical stabilityMay be altered by light.Hazardous reactionsMay be altered by light.None under normal processingConditions to avoidConditions to avoidExtremes of temperature and direct sunlightIncompatible materialsStrong acidsHazardous decomposition productsHalides, Metal oxides

Acute toxicity

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

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

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

## Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

### Other data

no data available

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 UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN3077 Environmentally hazardous substance, solid, n.o.s. (Tin(II) chloride dihydrate) 9 III Yes
IMDG	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Tin(II) chloride dihydrate)
UN classfication	9
Subsidiary hazard class	
Packing group	
Marine pollutant (Sea)	Yes
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
IATA	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Tin(II) chloride dihydrate)
UN classfication	9
Subsidiary hazard class Packing group	
Environmentally Hazardous	Yes
Substance	

Section 15: REGULATORY INFORMATION

International Inventories	
EINECS/ELINCS	-
TSCA	-
Japanese regulations	
Fire Service Act	Firefighting Inhibitor
Poisonous and Deleterious	Deleterious Substances 3rd. Grade
Substances Control Law	
Industrial Safety and Health A	ct 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.322
Regulations for the carriage	Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

and storage of dangerous	Transport by Ship and Storage, Attached Table 1) Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)			
goods in ship Civil Aeronautics Law				
Pollutant Release and Transfe Register Law (2023.4.1-)				
Export Trade Control Order	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 (2023.4.1-)	
Tin(II) chloride dihydrate	Applicable	Applicable	-	

## Section 16: OTHER INFORMATION

NITE: National Institute of Technology and Evaluation (JAPAN) Key literature references and 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 **Record of SDS revisions** The following contents were revised. Prodauct and company Identification. Exposure controls/personal protection. Regulatory information.

### Disclaimer

10025-69-1 (99.9 (subtracting method)

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