



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 28-Sep-2023

Revision Number 6.05

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Triphenyltin(IV) Chloride Standard
Product Code	201-13341

**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

Acute toxicity - Oral Category 3
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Reproductive Toxicity Category 2
Specific target organ toxicity (repeated exposure) Category 1

Category 1 immune system

Acute aquatic toxicity
Chronic aquatic toxicity
Category 1
Category 1

**Pictograms** 



## **Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H301 - Toxic if swallowed

H361 - Suspected of damaging fertility or the unborn child

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H372 - Causes damage to the following organs through prolonged or repeated exposure: immune system

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

- · Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Use personal protective equipment as required
- 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
- · Avoid release to the environment

### Precautionary statements-(Response)

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- 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
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth
- · Collect spillage

### Precautionary statements-(Storage)

· 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 C18H15CISn

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Triphenyltin(IV) Chloride	98.0	385.47	(3)-2598	*	639-58-7

\* 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

Note on ISHL No.:

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

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

### 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 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

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

## **Storage**

Safe storage conditions

Storage conditions Store away from sunlight in a cool (2-10 °C) well-ventilated dry place. Store locked up.

Safe packaging material Glass

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
Triphenyltin(IV) Chloride	N/A	N/A	STEL: 0.2 mg/m <sup>3</sup> Sn
639-58-7			TWA: 0.1 mg/m <sup>3</sup> Sn
			Skin

### Personal protective equipment

Respiratory protection Dust mask ( JIS T 8151 )

**Hand protection** chemical protective gloves (JIS T 8116) **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

ColorWhite - nearly whiteAppearancecrystalline powderOdorno data available

Melting point/freezing point 106 °C Boiling point, initial boiling point and boiling range 240 °C

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

Upper/lower flammability or

explosive limits

Upper:
Lower:
no data available
no data available
Flash point
no data available
Auto-ignition temperature:
no data available
Decomposition temperature:
no data available
pH
no data available
viscosity (coefficient of viscosity)
no data available

Dynamic viscosity no data available

Solubilities dichloromethane : soluble . water : practically insoluble,or

insoluble.

n-Octanol/water partition coefficient:(log Pow)
No data available
Napour pressure
No data available
Napour density
Napour density
No data available
Particle characteristics
No data available
No data available
No data available

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

### **Stability**

Reactivity no data available
Chemical stability May be altered by light.

**Hazardous reactions** 

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Halides, Metal oxides

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Triphenyltin(IV) Chloride	135 mg/kg ( Rat )	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
riipiionyimi(rv) omenae			Based on the NITE GHS classification results.

Chemical Name		Acute toxicity -inhalation dust-	·
	vapor- source information	source information	source information
Triphenyltin(IV) Chloride	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

## Skin irritation/corrosion

STOT -repeated exposure- source information

**Aspiration Hazard source information** 

Based on the NITE GHS classification results

Based on the NITE GHS classification results.

Chemical Name	Skin corrosion/irritation source information
Triphenyltin(IV) Chloride	Based on the NITE GHS classification results
Serious eye damage/ irritation	·
Chemical Name	Serious eye damage/irritation source information
Triphenyltin(IV) Chloride	Based on the NITE GHS classification results
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Triphenyltin(IV) Chloride	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Triphenyltin(IV) Chloride	Based on the NITE GHS classification results
Carcinogenicity	·
Chemical Name	Carcinogenicity source information
Triphenyltin(IV) Chloride	Based on the NITE GHS classification results
Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
Triphenyltin(IV) Chloride	Based on the NITE GHS classification results
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Triphenyltin(IV) Chloride	Based on the NITE GHS classification results
STOT-repeated exposure	

# **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Aspiration hazard

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Triphenyltin(IV) Chloride	N/A	N/A	LC50: Daphnia magna
			0.035 mg/L 24 h

## Other data

Other data		
Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source	aquatic environment source
	information	information
Triphenyltin(IV) 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

**Chemical Name** 

Triphenyltin(IV) Chloride

Chemical Name
Triphenyltin(IV) Chloride

# **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

UN3146 **IIN** number

Proper shipping name: Organotin compound, solid, n.o.s. (Triphenyltin(IV) Chloride)

**UN classfication** 

Subsidiary hazard class

Ш Packing group Marine pollutant Yes

**IMDG** 

**UN** number UN3146

Organotin compound, solid, n.o.s. (Triphenyltin(IV) Chloride) Proper shipping name:

**UN classfication** 6.1 Subsidiary hazard class Ρ Ш Packing group Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**UN** number UN3146

Proper shipping name: Organotin compound, solid, n.o.s. (Triphenyltin(IV) Chloride)

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

**Substance** 

## Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable

Poisonous and Deleterious Deleterious Substances 3rd. Grade

**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.322

Act on the Evaluation of Class II Specified Chemical Substances (Law Art.2, Para.3, Enforcement Order Art.1-2)

**Chemical Substances and** Regulation of Their Manufacture, etc.

**Civil Aeronautics Law** 

Regulations for the carriage

and storage of dangerous

goods in ship

Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Regarding Transport by Ship and Storage, Attached Table 1)

Transportation of Explosives etc., Attached Table 1)

Marine pollutants (P and PP substances)

**Marine Pollution Prevention** 

I aw

Pollutant Release and Transfer Class 1 **Register Law** 

(2023.4.1-)

664 Class 1 - No.

**Export Trade Control Order** Not applicable

**Air Pollution Control Law** Hazardous Air Pollutants

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-)
Triphenyltin(IV) Chloride 639-58-7 ( 98.0 )	Applicable	Applicable	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 Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**