

Tin(II) chloride, anhydrous

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 9/30/2013 Revision date: 6/20/2023 SDS code: C9-02 Version: 04

Safety Data Sheet

1. Chemical product and company identification

Tin(II) chloride, anhydrous **Product name**

SDS code C9-02

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Emergency number 06-6910-7305

Recommended use For research and experimental use only.

Restrictions on use Do not use on a human body or for animal medicines, foods, household

products, cosmetics, etc.

2. Hazards identification

GHS classification

Physical hazards **Explosives** No classification

> Flammable gases No classification Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Flammable liquids No classification Flammable solids No classification No classification

Self-reactive substances and

mixtures

No classification

Pyrophoric liquids Pyrophoric solids No classification Self-heating substances and

mixtures

No classification

Substances and mixtures which in

contact with water emit flammable

No classification

gases

Oxidizing liquids No classification Oxidizing solids No classification Organic peroxides No classification

Corrosive to metals classification not possible Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) No classification

> Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) No classification Acute toxicity (inhalation:vapors) No classification

Acute toxicity (inhalation:dust/mist) classification not possible Skin corrosion/irritation

classification not possible Serious eye damage/eye irritation classification not possible Respiratory sensitization classification not possible Skin sensitization classification not possible Germ cell mutagenicity classification not possible classification not possible Carcinogenicity

Reproductive toxicity No classification

Specific target organ toxicity (single Category 3 (Respiratory tract irritation.)

exposure)

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Specific target organ toxicity

(repeated exposure)

Category 1 (liver, kidneys)

Category 2 (blood system)

Specific target organ toxicity (repeated exposure)

(repeated exposure

classification not possible

Aspiration hazard

Environmental hazards

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic

Category 1

Category 1

environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)

Signal word (GHS JP)







GHS07

GHS08

: Danger

Hazard statements (GHS JP)

: May cause respiratory irritation (H335)

GHS09

Causes damage to organs (liver, kidneys) through prolonged or repeated

exposure (H372)

May cause damage to organs (blood system) through prolonged or

repeated exposure (H373)

Very toxic to aquatic life with long lasting effects (H410)

Precautionary statements (GHS JP)

Prevention : Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Response : IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

Get medical advice/attention if you feel unwell. (P314)

Collect spillage. (P391)

Storage : Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

Store locked up. (P405)

Disposal : Dispose of contents/container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international

regulation. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture : Substance

	Concentration or Concentration range	Formula	Kanpo number		
Name			CSCL no	ISHL no	CAS RN
Tin(II) chloride	≧90%	SnCl2	(1)-260	Existing Chemical Substance	7772-99-8

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water. Get immediate medical advice/attention.

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First-aid measures after eye

contact

: IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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Get immediate medical advice/attention.

First-aid measures after ingestion

Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

Explosion hazard

May induce explosion of containers by heating.

in case of fire

Hazardous decomposition products :

In case of fire, product may produce irritative or toxic fumes/gases.

Firefighting instructions : If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

In the case of peripheral fire, quickly remove movable containers to safe

places.

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Avoid (reject) fire-fighting water to enter environment.

fire at a stroke using appropriate fire-extinguishers.

Even after extinguishing fire, thoroughly cool containers by using plenty of

water.

Protection during firefighting

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Before entering, ventilate the area.

Do not let unauthorized persons come close to the area.

Immediately place the leakage area in isolation, with taking proper

distances for all directions.

Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.

Environmental precautions

Environmental precautions : Avoid release to the environment.

Prevent entry to sewers and public waters.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up

Take care not to generate dust, sweep it up as much as possible, collect it in an empty container that can be sealed, and move it to a safe place.

Wash out the spilled area with large amounts of water.

7. Handling and storage

Handling

Technical measures

Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions : Store locked up.

Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

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packaging/containers

Material used in

Technical measures : Comply with applicable regulations.

Storage temperature : Refrigerate

8. Exposure controls / Personal protection equipment

Exposure limit values		
Tin(II) chloride		
Exposure limits (ACGIH)	TWA 2 mg/m3(I),STEL -	

Light shielding airtight container.

Appropriate engineering controls : Cover up tightly the generation source at the handling place or install local

exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Dustproof mask
Hand protection : Protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

Skin and body protection : Protective clothing, Protective boots, Protective apron

9. Physical and chemical properties

Physical state : Solid
Appearance : Powder
Color : white
Odor : Odorless

pH : No data available

Melting point : 37 – 38 °C

Freezing point No data available Boiling point No data available No data available Flash point No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Density 3.95 g/cm³

Relative gas density : No data available

Solubility : Soluble in alcohol. Soluble in acids.

Water: 90 g/100ml (20°C)

Partition coefficient n-

octanol/water (Log Pow)

No data available

Explosive limits (vol %) : No data available Viscosity, kinematic : No data available Particle characteristics : No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions. Deliquescent.

Possibility of hazardous reactions : Be strong reducing agent, reacts with oxidizing agents (Nitrates, peroxides,

bases, etc.).

Conditions to avoid : Sunlight, heat, moisture. Contact with oxidizing agents.

Incompatible materials : Oxidizing agents

Hazardous decomposition : Chlorine, Hydrogen chloride, Tin oxides

products

11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

Tin(II) chloride		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	No classification	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	classification not possible	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	No classification	
STOT-single exposure	Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure	Category 1 Category 2	
Aspiration hazard	classification not possible	

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

Tin(II) chloride		
Hazardous to Aquatic Environment - Acute Hazard	Category 1	
Hazardous to Aquatic Environment - Chronic Hazard	Category 1	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	No data available	

13. Disposal considerations

Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and

packaging

Empty the packaging completely prior to disposal.

Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

14. Transport information

International Regulations

Transport by sea(IMDG)

UN-No. (IMDG) : 3260

Proper Shipping Name (IMDG) : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.

Packing group (IMDG) : III
Transport hazard class(es) (IMDG) : 8
Hazard labels (IMDG) : 8
Class (IMDG) : 8

Special provision (IMDG) : 223, 274
Packing instructions (IMDG) : P002, LP02
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3
Tank instructions (IMDG) : T1
Tank special provisions (IMDG) : TP33
Stowage category (IMDG) : A

Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

MFAG-No : 15

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Air transport(IATA)

UN-No. (IATA) 3260

Proper Shipping Name (IATA) Corrosive solid, acidic, inorganic, n.o.s.

5kg

Packing group (IATA) Ш Transport hazard class(es) (IATA) 8 Hazard labels (IATA) 8 Class (IATA) 8 PCA Excepted quantities (IATA) E1 PCA Limited quantities (IATA) Y845

quantity (IATA)

PCA limited quantity max net

PCA packing instructions (IATA) 860 PCA max net quantity (IATA) 25kg CAO packing instructions (IATA) 864 CAO max net quantity (IATA) 100kg Special provision (IATA) A3, A803 ERG code (IATA) 8L Marine pollutant Applicable

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Conform to the provisions of the Civil Aeronautics Law. Regulatory information by air

MFAG-No 154

When transporting, load containers so that they do not tip over, Special transport precautions

damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Harmful Substances Whose Names Are to be Indicated on the Label Industrial Safety and Health Law

(Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,

Attached Table No.9)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9)

Tin and its compounds (Ordinance number: 322) Deleterious Substances (Designated Order Art.2)

Deleterious Substances Control Law

Japanese Poisonous and

Fire Service Law

Tin compounds, inorganic Designation of Materials Requiring Notification (Law Art.9-3, Cabinet

Order on Hazardous Materials Art.1-10 Para 6, Attached Table No.2-

18, Ordinacne No. 2 of 1988, Art.2)

Foreign Exchange and Foreign

Trade Control Act Ship Safety Act

Export Trade Control Ordinance appendix 1-16

Corrosive substances (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)

Civil Aeronautics Law Corrosive substances (Hazardous materials notice Appended Table 1

Article 194 of the Enforcement Regulations)

Port Regulation Law Corrosive substances (Article 21, Paragraph 2 of Law, Article 12 rule,

notice attached table that defines the type of dangerous goods)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Not applicable

16. Other information

Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd. Data sources

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).

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This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance. the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user

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him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.