

Tin(II) sulfate

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 3/18/2008 Revision date: 4/2/2024 SDS code: F4-11 Version: 09

Safety Data Sheet

1. Chemical product and company identification

Product name : Tin(II) sulfate

SDS code : F4-11

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Telephone: 06-6910-7305

E-mail: shiyaku_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

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

Health hazards

Physical hazards Explosives No classification

Flammable gases

Aerosol

Oxidizing gases

Oxidizing gases

No classification

No classification

No classification

No classification

Flammable liquids

Flammable solids

No classification

No classification

No classification

No classification

No classification

No classification

mixtures

Pyrophoric liquids
Pyrophoric solids
No classification
No classification
No classification
No classification

mixtures

Substances and mixtures which in one contact with water emit flammable

gases

Oxidizing liquids No classification

Oxidizing solids classification not possible

Organic peroxides No classification

Corrosive to metals classification not possible

Desensitized explosives No classification
Acute toxicity (oral) No classification

Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) No classification

Acute toxicity (inhalation:vapors) classification not possible Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1

Respiratory sensitization classification not possible

Skin sensitization Category 1
Germ cell mutagenicity No classification

Carcinogenicity classification not possible Reproductive toxicity classification not possible

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

exposure)

Revision date: 4/2/2024 SDS code: F4-11

Specific target organ toxicity

(repeated exposure)

Category 1 (lungs)

Specific target organ toxicity

(repeated exposure)

Category 2 (liver, blood system)

(repeated exposure

Aspiration hazard

classification not possible classification not possible

Environmental hazards

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

Hazardous to the aquatic environment, long-term (chronic)

Hazardous to the ozone layer

classification not possible

classification not possible

Hazard pictograms (GHS JP)







GHS05

GHS07

GHS08

Signal word (GHS JP)

: Danger

Hazard statements (GHS JP) : Causes skin irritation (H315)

May cause an allergic skin reaction (H317) Causes serious eye damage (H318) May cause respiratory irritation (H335)

Causes damage to organs (lungs) through prolonged or repeated

exposure (H372)

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

repeated exposure (H373)

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)

Contaminated work clothing should not be allowed out of the workplace.

(P272)

Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

Response : IF ON SKIN: Wash with plenty of water. (P302+P352)

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

breathing (P304+P340)

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

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

(P305+P351+P338)

Immediately call a POISON CENTER or doctor. (P310) Get medical advice/attention if you feel unwell. (P314)

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)

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

Synonyms : Stannous sulphate

Name	Concentration or Concentration range	Formula	Kanpo number		CAS RN
			CSCL no	ISHL no	OAO KIT
Tin(II) sulfate	≥98.0%、≤100%	SnSO4	(1)-538	Existing Chemical Substance	7488-55-3

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.

Revision date: 4/2/2024 SDS code: F4-11 Version: 09

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.

First-aid measures after eve

contact

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

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

Get immediate medical advice/attention.

Rinse mouth. First-aid measures after ingestion

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Firefighting instructions

Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media

Do not use a heavy water stream.

Hazardous decomposition products

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

in case of fire

If ignited, for the initial fire-fighting, cut off combustion sources, extinguish fire at a stroke using appropriate fire-extinguishers.

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.

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

Avoid release to the environment. **Environmental precautions**

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.

Revision date: 4/2/2024 SDS code: F4-11 Version: 09

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.

Material used in

packaging/containers

: Airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Cool and dark place

8. Exposure controls / Personal protection equipment

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 : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection : Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Physical state : Solid
Appearance : Crystals

Color : colorless ~ white

Odor : Odorless

pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Auto-ignition temperature : No data available

Decomposition temperature : 350 °C

Flammability : No data available Vapor pressure : No data available Relative density : No data available

Density : 3.8 g/cm³

Relative gas density : No data available

Solubility : Easily soluble in water. Soluble in dilute sulfuric acid. Insoluble in ethanol.

Partition coefficient n- : No data available

octanol/water (Log Pow)

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. Shows hygroscopicity.

Possibility of hazardous reactions : Reacts with strong oxidizing agents.

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

Incompatible materials : Strong oxidizing agents
Hazardous decomposition : Sulfur oxides, Tin oxides

products

Revision date: 4/2/2024 SDS code: F4-11 Version: 09

11. Toxicological information

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

Tin(II) sulfate		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	classification not possible	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	Category 2	
Serious eye damage/irritation	Category 1	
Respiratory sensitization	classification not possible	
Skin sensitization	Category 1	
Germ cell mutagenicity	No classification	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
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) sulfate		
Hazardous to Aquatic Environment - Acute Hazard	classification not possible	
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Hazardous to the ozone layer	classification not possible	

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 : Empty the packaging completely prior to disposal.

packaging 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) : Not applicable Proper Shipping Name (IMDG) : Not applicable Packing group (IMDG) : Not applicable Transport hazard class(es) (IMDG) : Not applicable

Air transport(IATA)

UN-No. (IATA) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Packing group (IATA) : Not applicable
Transport hazard class(es) (IATA) : Not applicable

Marine pollutant : Not applicable

Regulations in Japan

Regulatory information by sea : Not applicable Regulatory information by air : Not applicable

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

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

Revision date: 4/2/2024 SDS code: F4-11

15. Regulatory information

National law

Industrial Safety and Health Law

Harmful Substances Whose Names Are to be Indicated on the Label

(Law Art.57, Para.1, Enforcement Order Art.18)

Dangerous or Harmful Substances for Notification of Chemical Name

etc. on SDS (Law Art.57-2, Enforcement Order Art.18-2)

Tin and its compounds

Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1,

4 based on July 4, 2023)

Japanese Poisonous and

Deleterious Substances Control Law

Fire Service Law

Deleterious Substances (Designated Order Art.2)

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

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Export Trade Control Ordinance appendix 1-16

Not applicable

16. Other information

Data sources : Handbook of 17524 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

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

Other information

The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. 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 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.