

Triphenyltin chloride-d₁ 5

Hayashi Pure Chemical Ind.,Ltd.

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Safety Data Sheet

1. Chemical product and company identification

Product name : Triphenyltin chloride-d₁ 5

SDS code : Q4-08

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 for any purpose other than research and experiment. Do not use on a

human body or for animal medicines, foods, household products, cosmetics, etc.

Do not use in the environment.

2. Hazards identification

GHS classification

Physical hazards Explosives No classification

Flammable gases

Aerosol

Oxidizing gases

No classification

Flammable solids classification not possible

Self-reactive substances and

mixtures

No classification

Pyrophoric liquids No classification
Pyrophoric solids No classification

Self-heating substances and

mixtures

classification not possible

Substances and mixtures which in contact with water emit flammable

gases

No classification

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) Category 3

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 Category 2
Serious eye damage/eye irritation Category 2

Respiratory sensitization classification not possible classification not possible classification not possible classification not possible carcinogenicity classification not possible classification not possible

Reproductive toxicity Category 2

Specific target organ toxicity (single classification not possible

exposure)

Specific target organ toxicity

(repeated exposure)

Aspiration hazard 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

Hazard pictograms (GHS JP)







GHS09

GHS06

GHS08

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : Toxic if swallowed (H301)

Causes skin irritation (H315)
Causes serious eye irritation (H319)

Suspected of damaging fertility or the unborn child (H361)

Causes damage to organs (immune system) through prolonged or

Category 1 (immune system)

Category 1

Category 1

repeated exposure (H372)

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

Precautionary statements (GHS JP)

Prevention : Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood.

(P202)

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)

Avoid release to the environment. (P273)

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

(P280)

Response : IF SWALLOWED: Immediately call a POISON CENTER or doctor.

(P301+P310)

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

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

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

(P305+P351+P338)

IF exposed or concerned: Get medical advice/attention. (P308+P313)

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

Rinse mouth. (P330)

If skin irritation occurs: Get medical advice/attention. (P332+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)

Collect spillage. (P391)

Storage : 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

| Name | Concentration or | Formula | Kanpo number | | CAS RN |
|-------------------------------------|---------------------|------------|--------------|-----------------------------------|-------------|
| Hallic | Concentration range | | CSCL no | ISHL no | CASIN |
| Triphenyltin chloride-d15 (TPT-d15) | ≧95%、≦100% | C18D15ClSn | (3)-2598 | Existing Chemical Substance | 358731-94-9 |

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.

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

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

Unsuitable extinguishing media

Do not use a heavy water stream.

Explosion hazard

Firefighting instructions

May induce explosion of containers by heating.

Hazardous decomposition products

in case of fire

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

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.

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

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

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.

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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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Material used in

packaging/containers

Light shielding airtight container.

Technical measures Comply with applicable regulations.

Storage temperature Freeze: -20°C

8. Exposure controls / Personal protection equipment

| Exposure limit values | | | |
|-------------------------|---|--|--|
| Triphenyltin chloride | | | |
| Exposure limits (ACGIH) | TWA 0.1 mg/m3,STEL 0.2 mg/m3 (as Sn) (Skin) | | |

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

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

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

9. Physical and chemical properties

Physical state Solid Appearance Solid

Color No data available Odor No data available рΗ 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 No data available Decomposition temperature No data available Flammability (solid, gas) Vapor pressure No data available Relative density No data available Density No data available Relative gas density No data available Solubility No data available 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.

Possibility of hazardous reactions No data available Conditions to avoid Sunlight, Heat Incompatible materials No data available

Hazardous decomposition Tin compounds, Chlorine and its compounds

products

11. Toxicological information

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

| Triphenyltin chloride | | |
|---------------------------------------|-----------------------------|--|
| Acute toxicity (oral) | Category 3 | |
| 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 | Category 2 | |
| Serious eye damage/irritation | Category 2 | |
| Respiratory sensitization | classification not possible | |
| Skin sensitization | classification not possible | |
| Germ cell mutagenicity | classification not possible | |
| Carcinogenicity | classification not possible | |
| Reproductive toxicity | Category 2 | |
| STOT-single exposure | classification not possible | |
| STOT-repeated exposure | Category 1 | |
| Aspiration hazard | classification not possible | |

12. Ecological information

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

| Triphenyltin 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 | 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

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) 3146

Proper Shipping Name (IMDG) ORGANOTIN COMPOUND, SOLID, N.O.S.

Α

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 6.1 Hazard labels (IMDG) 6.1 Class (IMDG) 6.1 Division (IMDG) 6.1

Special provision (IMDG) 43, 223, 274 Limited quantities (IMDG) 5 kg

Excepted quantities (IMDG) E1 P002, LP02 Packing instructions (IMDG) IBC packing instructions (IMDG) IBC08 IBC special provisions (IMDG) В3 Tank instructions (IMDG) T1 Tank special provisions (IMDG) **TP33** Stowage category (IMDG)

Properties and observations (IMDG) : A wide variety of toxic solids. Toxic if swallowed, by skin contact or by

inhalation.

MFAG-No : 153

Air transport(IATA)

UN-No. (IATA) : 3146

Proper Shipping Name (IATA) : Organotin compound, solid, n.o.s.

Packing group (IATA) : III
Transport hazard class(es) (IATA) : 6.1
Hazard labels (IATA) : 6.1
Class (IATA) : 6.1
Division (IATA) : 6.1
PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y645 PCA limited quantity max net : 10kg

quantity (IATA)

PCA packing instructions (IATA) : 670
PCA max net quantity (IATA) : 100kg
CAO packing instructions (IATA) : 677
CAO max net quantity (IATA) : 200kg
Special provision (IATA) : A3, A5, A6
ERG code (IATA) : 6L

Marine pollutant : Applicable

Regulations in Japan

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

MFAG-No : 15

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.

15. Regulatory information

National law

Chemical Substances Control Law : Class II Specified Chemical Substances (Law Art.2, Para.3,

Enforcement Order Art.1-2)

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 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)

Japanese Poisonous and

Deleterious Substances Control Law

Deleterious Substances (Designated Order Art.2)

Triaryltin hydroxide, its salts and its anhydride, and preparations containing some of them. (except for preparations which contain 2%

or less of triaryltin hydroxide, its salts or its anhydride.)

Fire Service Law : Not applicable

Air Pollution Control Law : Hazardous Air Pollutants (Central Environment Council Report No. 9)

Law Relating to Prevention of Marine Pollution and Maritime

Disasters

Marine Pollutants for Non-Bulk Shipment (Ordinance Art.30-2-3, MLIT

Notification)

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Order, Attached Table 1 Para.2 Export Trade Control Ordinance appendix 1-16

Ship Safety Act : Toxic and infectious substances/Toxic substances (Dangerous Goods

Notification Schedule first second and third Article Dangerous Goods

Regulations)

Civil Aeronautics Law : Toxic and infectious substances/Toxic substances (Hazardous

materials notice Appended Table 1 Article 194 of the Enforcement

Regulations)

Port Regulation Law : Toxic and infectious substances/Toxic 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)

: Class 1 Designated Chemical Substances (Act Art.2 para. 2,

Enforcement Oder Art.1 Appended Table No.1)

Organic tin compounds (except for Bis(tributyltin) oxide) as tin(31%)

16. Other information

Data sources

 Handbook of 17423 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 Havashi 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.