

## Lead(II) acetate trihydrate

### Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 6/16/2010 Revision date: 5/26/2023 SDS code: B5-05 Version: 08

### Safety Data Sheet

### 1. Chemical product and company identification

**Product name** Lead(II) acetate trihydrate

SDS code B5-05

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 Self-reactive substances and No classification

mixtures

No classification

Pyrophoric liquids Pyrophoric solids No classification Self-heating substances and No classification

mixtures

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) 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 classification not possible Serious eye damage/eye irritation classification not possible Respiratory sensitization classification not possible

Skin sensitization classification not possible Germ cell mutagenicity Category 2 Carcinogenicity Category 2

Reproductive toxicity Category 1A Specific target organ toxicity (single Category 1 (blood system, kidneys, nervous system)

exposure)

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Specific target organ toxicity

(repeated exposure)

Category 1 (blood system, kidneys, nervous system)

Aspiration hazard

Aspiration hazard

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

Category 3

Hazardous to the aquatic

environment, long-term (chronic)

Category 3

Hazardous to the ozone layer

classification not possible

classification not possible

Hazard pictograms (GHS JP)

Environmental

hazards



Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : Suspected of causing genetic defects (H341)

Suspected of causing cancer (H351)

May damage fertility or the unborn child (H360)

Causes damage to organs (blood system, kidneys, nervous system)

(H370)

Causes damage to organs (blood system, kidneys, nervous system)

through prolonged or repeated exposure (H372) Harmful to aquatic life with long lasting effects (H412)

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 exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

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

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

.,	Concentration or Concentration range	Formula	Kanpo number		040 04
Name			CSCL no	ISHL no	CAS RN
Lead(II) acetate trihydrate	≧99.0%, ≦100%	Pb(CH3COO)2 • 3H2O	(2)-693	Existing Chemical Substance	6080-56-4

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, Foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

Fire hazard Explosion hazard

This product is unburnable.

Hazardous decomposition products

May induce explosion of containers by heating.

in case of fire

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

Firefighting instructions :

fire at a stroke using appropriate fire-extinguishers.

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

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

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

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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Material used in

Airtight container.

packaging/containers

Technical measures Comply with applicable regulations.

Storage temperature Cool and dark place

## 8. Exposure controls / Personal protection equipment

Exposure limit values			
Lead(II) acetate trihydrate			
Japan administration level	0.05mg/m3(as Pb)		
Exposure limits (JSOH)	0.03mg/m3(as Pb, except Alkyllead compounds)		

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 Crystals ~ Mass Color colorless ~ white Odor Acetic acid odor рΗ No data available

75 °C Melting point

No data available Freezing point Boiling point No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Density 2.55 g/cm3

Relative gas density No data available

Solubility Soluble in water. Soluble in glycerol. Soluble in alcohol.

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 When heated, toxic fumes and gases of lead(II) oxide are generated.

Conditions to avoid Sunlight, Heat Incompatible materials No data available Hazardous decomposition

products

Lead oxide

# 11. Toxicological information

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

Lead(II) acetate trihydrate		
Acute toxicity (oral)	Category 5	
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	classification not possible	
Serious eye damage/irritation	classification not possible	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	Category 2	
Carcinogenicity	Category 2	
Reproductive toxicity	Category 1A	
STOT-single exposure	Category 1	
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.

Lead(II) acetate trihydrate		
Hazardous to Aquatic Environment - Acute Hazard	Category 3	
Hazardous to Aquatic Environment - Chronic Hazard	Category 3	
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) : 1616

Proper Shipping Name (IMDG) : LEAD ACETATE

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 6.1 Hazard labels (IMDG) 6.1 Class (IMDG) 6.1 Division (IMDG) 6.1 Packing instructions (IMDG) P002, LP02 IBC packing instructions (IMDG) IBC08 IBC special provisions (IMDG) В3 Tank instructions (IMDG) T1

Tank special provisions (IMDG) : TP33
Stowage category (IMDG) : A

Properties and observations (IMDG) : White crystals, or brown or grey lumps. Soluble in water. Toxic if

swallowed, by skin contact or by inhalation.

MFAG-No : 151

Air transport(IATA)

UN-No. (IATA) 1616

Proper Shipping Name (IATA) Lead acetate

Packing group (IATA) Ш Transport hazard class(es) (IATA) 6.1 Hazard labels (IATA) 6.1 Class (IATA) 6.1 Division (IATA) 6.1 PCA Excepted quantities (IATA) F1 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 ERG code (IATA) 6L

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 151

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**

Working Environment Evaluation Standards, Administrative Control Industrial Safety and Health Law

Levels (Law Art.65-2, Para.1)

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) Lead acetate (Ordinance number: 179)

Lead compounds (Enforcement Order, Art., Appended Table No.4, Ordinance on Prevention of Lead Poisoning, Art.1, Item 4, MHLW

Notification No.91 of 1972)

Substances on Special medical examination, Current handling workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1)

Japanese Poisonous and

Deleterious Substances Control Law

Deleterious Substances (Designated Order Art.2) Lead compounds

Water Pollution Prevention Law Hazardous Substances (Act, Art.2, Enforcement Order Art.2,

Ministerial Ordinance to Provide for Effluent Standards, Art.1)

Fire Service Law 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)

Air Pollution Control Law Hazardous substances (Article 2, Paragraph 1, Item 3 of the Law,

Article 1 of the Enforcement Ordinance)

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 Ship Safety Act

Export Trade Control Ordinance appendix 1-16

Toxic and infectious substances/Toxic substances (Dangerous Goods

Notification Schedule first second and third Article Dangerous Goods

Regulations)

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

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)

Waste Management on Public

Cleansing Law

Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment

Order Art.2-4)

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Waterworks Law : Hazardous Substances (Act Article 4 paragraph 2), Standard for

Water Quality (Ministry Order No.101 of 2003)

Sewerage Law : Substances for Water Quality Standard (Act Art.12-2 Para.2,

Enforcement Order Art.9-4)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Class 1 Designated Chemical Substances, Specified Class 1
Designated Chemical Substances (Act Art.2 para. 2, Enforcement
Oder Art.1 Appended Table No.1, Enforcement Oder Art.4)

Lead and its compounds as lead(55%)

Labor Standards Act : Chemical Substances Causing Occupational Illnesses (Act Art.75,

Para.2, Ordinance Attached Table 1-2, Item 4-1, MHLW Nortification

No.36 of 1978)

Soil Contamination Countermeasures Law Designated Hazardous Substances (Act Art.2 Para.3, Enforcement

Order Art.1)

#### 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 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.