

# Diphenylarsinic acid-13C<sub>12</sub>

# Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 7/30/2020 Revision date: 5/8/2023 SDS code: MA-17 Version: 03

## Safety Data Sheet

#### 1. Chemical product and company identification

**Product name** Diphenylarsinic acid-13C<sub>12</sub>

SDS code MA-17

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/

06-6910-7305 **Emergency number** 

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** classification not possible

> Flammable gases No classification

Aerosol classification not possible

Oxidizing gases No classification Gases under pressure No classification Flammable liquids No classification

Flammable solids classification not possible Self-reactive substances and classification not possible

mixtures

No classification Pyrophoric liquids

Pyrophoric solids classification not possible Self-heating substances and classification not possible

mixtures

Substances and mixtures which in classification not possible

contact with water emit flammable

gases

Oxidizing liquids No classification

Oxidizing solids classification not possible Organic peroxides classification not possible Corrosive to metals classification not possible Desensitized explosives classification not possible

Health hazards Acute toxicity (oral) Category 2

> Acute toxicity (dermal) classification not possible Acute toxicity (inhalation:gas) classification not possible

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 Carcinogenicity classification not possible Reproductive toxicity classification not possible classification not possible

Specific target organ toxicity (single

exposure)

Specific target organ toxicity

(repeated exposure)

classification not possible

classification not possible

classification not possible

Aspiration hazard

Hazardous to the aquatic Environmental

hazards

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)



Signal word (GHS JP) Danger

Hazard statements (GHS JP) Fatal if swallowed (H300)

Precautionary statements (GHS JP)

Prevention Wash hands, forearms and face thoroughly after handling. (P264)

Do not eat, drink or smoke when using this product. (P270)

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

> (P301+P310) Rinse mouth. (P330)

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
Name	Concentration range	Torritaia	CSCL no	ISHL no	OAO KK
Diphenylarsinic acid-13C12	≧95% <b>、</b> ≦100%	<sup>13</sup> C12H11AsO2	-	-	-

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 eye

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.

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.

Explosion hazard 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 Firefighting instructions

fire at a stroke using appropriate fire-extinguishers.

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

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

Wear appropriate fire-resistant clothing including self contained-Protection during firefighting

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.

Material used in

packaging/containers

Light shielding airtight container.

Comply with applicable regulations. Technical measures

Storage temperature Refrigerate: 2-10°C

# 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 : Protective gloves

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

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

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# 9. Physical and chemical properties

Physical state : Solid

Appearance No data available 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 Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Density No data available Relative gas density No data available No data available Solubility 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. It may be altered by light.

Possibility of hazardous reactions : May react with strong oxidizing agents.

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

Incompatible materials : Strong oxidizing agents Hazardous decomposition : Arsenic compounds

products

# 11. Toxicological information

Diphenylarsinic acid		
Acute toxicity (oral)	Category 2	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (gas)	classification not possible	
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	classification not possible	
STOT-single exposure	classification not possible	
STOT-repeated exposure	classification not possible	
Aspiration hazard	classification not possible	

# 12. Ecological information

Diphenylarsinic acid		
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) : 3465

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

Packing group (IMDG) : II

Transport hazard class(es) (IMDG) : 6.1

Hazard labels (IMDG) : 6.1

Class (IMDG) : 6.1

Division (IMDG) : 6.1

Special provision (IMDG) : 274

Limited quantities (IMDG) : 500 g

Excepted quantities (IMDG) : E4
Packing instructions (IMDG) : P002
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B21, B4
Tank instructions (IMDG) : T3
Tank special provisions (IMDG) : TP33
Stowage category (IMDG) : B

Properties and observations (IMDG) : Toxic if swallowed, by skin contact or by inhalation.

MFAG-No : 151

Air transport(IATA)

UN-No. (IATA) : 3465

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

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) E4 PCA Limited quantities (IATA) Y644 PCA limited quantity max net 1kg

quantity (IATA)

PCA packing instructions (IATA) : 669

PCA max net quantity (IATA) : 25kg

CAO packing instructions (IATA) : 676

CAO max net quantity (IATA) : 100kg

Special provision (IATA) : A3, A5

ERG code (IATA) : 6L

Marine pollutant : Not 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 : 151

**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**

Industrial Safety and Health Law

Group 2 Specified Chemical Substance, Group 2 Substance Under Supervision (Ordinance on Prevention of Hazards Due to Specified

Chemical Substances Art.2 Para.1, Item 2,5)

Working Environment Evaluation Standards, Administrative Control

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)

Arsenic and its compounds (Ordinance number: 458) Specified Chemical Substances, Special Control Substances (Ordinance on Prevention of Hazards Due to Specified Chemical

Substances Art.38-3)

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

(Act, Art.66, Para.2, Enforcement Order, Art.22 Item 2)

Japanese Poisonous and Deleterious Substances Control Law

Water Pollution Prevention Law

Poisonous Substances (Designated Order, Art.1) Arsenic compounds and preparations containing them.

Hazardous Substances (Act, Art.2, Enforcement Order Art.2, Ministerial Ordinance to Provide for Effluent Standards, Art.1)

Fire Service Law

Not applicable

Air Pollution Control Law

Hazardous Air Pollutants, Priority Substances (Central Environment

Council Report No. 9)

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)

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)

Waste Management on Public

Cleansing Law

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

Order Art.2-4)

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)

Not applicable

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).

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

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.