

# **Pyridaben**

### Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 5/27/2022 SDS code: W6-03 Version: 01

## Safety Data Sheet

### 1. Chemical product and company identification

Product name : Pyridaben SDS code : W6-03

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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**Emergency number** : 06-6910-7305

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

mixtures

Substances and mixtures which in No classification

contact with water emit flammable

gases

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

Corrosive to metals classification not possible

Desensitized eplosives

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation:gas)

No classification

No classification

Acute toxicity (inhalation:vapors) classification not possible

Acute toxicity (inhalation:dust/mist) Category 3
Skin corrosion/irritation No classification
Serious eye damage/eye irritation No classification

Respiratory sensitization classification not possible

Skin sensitization No classification
Germ cell mutagenicity No classification
Carcinogenicity No classification
Reproductive toxicity No classification

Specific target organ toxicity (single

exposure)

Category 1 (nervous system, respiratory system)

Specific target organ toxicity (single

exposure)

Category 3 (Narcosis)

Specific target organ toxicity

(repeated exposure)

classification not possible

Aspiration hazard classification not possible

Environmental hazards

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

environment, short-term (acute)

Hazardous to the aquatic Category 1

environment, long-term (chronic) Hazardous to the ozone layer

classification not possible

Category 1

Hazard pictograms (GHS JP)







GHS06

GHS08 GHS

Signal word (GHS JP) : Danger

Hazard statements (GHS JP) : Toxic if swallowed or if inhaled (H301+H331)

May cause drowsiness or dizziness (H336)

Causes damage to organs (nervous system, respiratory system) (H370)

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 SWALLOWED: Immediately call a POISON CENTER or doctor.

(P301+P310)

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

breathing (P304+P340)

IF exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

Call a POISÓN CENTER or doctor if you feel unwell. (P312)

Rinse mouth. (P330) 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

Nama	Concentration or Concentration range	Formula	Kanpo number		040 511
Name			CSCL no	ISHL no	CAS RN
Pyridaben	≧98%、≦100%	C19H25CIN2OS	-	8-(2)-1439	96489-71-3

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are mass%, 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, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

May induce explosion of containers by heating.

Hazardous decomposition products

Firefighting instructions

**Explosion hazard** 

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

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

Take care not to generate dust, sweep it up as much as possible, collect it Methods for cleaning up

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.

Technical measures Comply with applicable regulations.

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

## 9. Physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder

Color : white Odor : Odorless

pH : No data available
Melting point : 109.4 – 110.6 °C
Freezing point : No data available
Boiling point : No data available

Flash point : ≥ 200 °C

No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure 1.09×10<sup>-2</sup> Pa (25°C) Relative density No data available Density 1.20 g/cm3 (20°C) Relative gas density No data available Solubility Water: 12 µg/l (24°C)

Partition coefficient n- :  $> 6.37 (23^{\circ}C)$ 

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. Unstable to light.

Possibility of hazardous reactions : Reacts with acids, bases and oxidizing agents.

Conditions to avoid : Sunlight, heat. Contact with acids, bases and oxidizing agents.

Incompatible materials : Acids, Bases, Oxidizing agents

Hazardous decomposition : Nitrogen oxides, Sulfur oxides, Chlorine and its compounds

products

# 11. Toxicological information

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

Pyridaben		
Acute toxicity (oral)	Category 3	
Acute toxicity (dermal)	No classification	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	classification not possible	
Acute toxicity (inhalation:dust/mist)	Category 3	
Skin corrosion/irritation	No classification	
Serious eye damage/irritation	No classification	
Respiratory sensitization	classification not possible	

Pyridaben		
Skin sensitization	No classification	
Germ cell mutagenicity	No classification	
Carcinogenicity	No classification	
Reproductive toxicity	No classification	
STOT-single exposure	Category 1 Category 3 (Narcosis)	
STOT-repeated exposure	classification not possible	
Aspiration hazard	classification not possible	

# 12. Ecological information

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

Pyridaben		
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 : Empty the packaging completely prior to disposal.

. Empty the packaging completely phor 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) : 2811

Proper Shipping Name (IMDG) : TOXIC SOLID, ORGANIC, N.O.S. Packing group (IMDG) : III

Transport hazard class(es) (IMDG) 6.1 Hazard labels (IMDG) 6.1 Class (IMDG) 6.1 Division (IMDG) 6.1 Special provision (IMDG) 223, 274 Limited quantities (IMDG) 5 kg Excepted quantities (IMDG) E1 Packing instructions (IMDG) P002 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) : Toxic if swallowed, by skin contact or by inhalation.

MFAG-No : 154

Air transport(IATA)

UN-No. (IATA) : 2811

Proper Shipping Name (IATA) : Toxic solid, organic, 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

quantity (IATA)

10kg

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 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.

154 MFAG-No

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

Not applicable Japanese Poisonous and

Deleterious Substances Control Law

Deleterious Substances (Designated Order Art.2)

2-t-Butyl-5-(4-t-butylbenzylthio)-4-chloropylidazin-3(2H)-one and

preparations containing it

Fire Service Law

Foreign Exchange and Foreign

Ship Safety Act

Export Trade Control Ordinance appendix 1-16

Trade Control Act

Toxic and infectious substances/Toxic substances (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods

Regulations)

Not applicable

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)

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)

2-tert-Butyl-5-(4-tert-butyl benzylthio)-4-chloro-3(2H)-pyridazinone

(100%)

[After amendment of April 2023]

Class 2 Designated Chemical Substances (Act, Art.2, Para. 3,

Enforcement Order, Art.2, Appended Table 2)

2-tert-Butyl-5-(4-tert-butylbenzylthio)-4-chloro-3(2H)-pyridazinone

(100%)

### 16. Other information

Data sources Handbook of 17322 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.