

# **Penthiopyrad**

# Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 4/24/2023 SDS code: Q9-14 Version: 01

### Safety Data Sheet

### 1. Chemical product and company identification

**Product name** Penthiopyrad SDS code Q9-14

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.

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

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

Do not use in the environment.

## 2. Hazards identification

#### **GHS** classification

Health hazards

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 classification not possible

Self-reactive substances and No classification

mixtures

No classification Pyrophoric liquids

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

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

No classification

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

classification not possible Corrosive to metals

Desensitized explosives No classification Acute toxicity (oral) No classification Acute toxicity (dermal) No classification Acute toxicity (inhalation:gas) No classification

Acute toxicity (inhalation:vapors) classification not possible

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

Respiratory sensitization classification not possible

Skin sensitization No classification No classification Germ cell mutagenicity Carcinogenicity Category 2 Reproductive toxicity Category 2

Specific target organ toxicity (single Category 2 (nervous system)

exposure)

SDS code: Q9-14 Version: 01

Specific target organ toxicity

(repeated exposure)

Category 2 (liver)

classification not possible

Aspiration hazard

Hazardous to the aquatic

environment, short-term (acute)

Category 1

Hazardous to the aquatic

environment, long-term (chronic)

Category 1

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)

Environmental

hazards





GHS08

GHS09

Signal word (GHS JP) : Warning

Hazard statements (GHS JP) : Suspected of causing cancer (H351)

Suspected of damaging fertility or the unborn child (H361) May cause damage to organs (nervous system) (H371)

May cause damage to organs (liver) through prolonged or repeated

exposure (H373)

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 exposed or concerned: Call a POISON CENTER or doctor.

(P308+P311)

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

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 Concentration range	Formula	Kanpo number		CAS RN
				CSCL no	ISHL no	OAO KK
	Penthiopyrad	≧95% <b>、</b> ≦100%	C16H20F3N3OS	-	8-(2)-2246	183675-82-3

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.

## 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, product may produce irritative or toxic fumes/gases.

in case of fire

Firefighting instructions : 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

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.

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 : Crystals
Color : white
Odor : Odorless

pH : No data available

Melting point : 108.7 °C

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

Decomposition temperature : ≈ 230 °C

Flammability (solid, gas)

Vapor pressure

: 6.43×10<sup>-6</sup> Pa

Relative density

: No data available

Density

: 1.237 g/cm³ (20°C)

Relative gas density

: No data available

Solubility : Slightly soluble in n-hexane. Soluble in methanol. Soluble in ethyl acetate.

Water: 7.53 mg/l

Partition coefficient n-

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.

3.2

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

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

products

### 11. Toxicological information

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

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

Penthiopyrad	nthiopyrad		
Skin sensitization	No classification		
Germ cell mutagenicity	No classification		
Carcinogenicity	Category 2		
Reproductive toxicity	Category 2		
STOT-single exposure	Category 2		
STOT-repeated exposure	Category 2		
Aspiration hazard	classification not possible		

# 12. Ecological information

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

Penthiopyrad	iopyrad	
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) : 307

Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Packing group (IMDG) : III
Transport hazard class(es) (IMDG) : 9
Hazard labels (IMDG) : 9
Class (IMDG) : 9

Special provision (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02, P002
Packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33 Stowage category (IMDG) : A MFAG-No : 171

Air transport(IATA)

UN-No. (IATA) : 3077

Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s.

Packing group (IATA) : III

Transport hazard class(es) (IATA) : 9

Hazard labels (IATA) : 9

Class (IATA) : 9

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y956

PCA limited quantity max net : 30kgG

quantity (IATA)

PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provision (IATA) : A97, A158, A179, A197, A215

ERG code (IATA) : 9I

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.

: 171

**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**

MFAG-No

Industrial Safety and Health Law : Not applicable Japanese Poisonous and : Not applicable

Deleterious Substances Control Law

Fire Service Law : Not applicable

Foreign Exchange and Foreign

Trade Control Act

: Export Trade Control Ordinance appendix 1-16

Ship Safety Act : Miscellaneous dangerous substances & articles (Dangerous Goods

Notification Schedule first second and third Article Dangerous Goods

Regulations)

Civil Aeronautics Law : Miscellaneous dangerous substances & articles (Hazardous materials

notice Appended Table 1 Article 194 of the Enforcement Regulations)

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)

(RS)-N-[2-(1,3-dimethylbutyl)-3-thienyl]-1-methyl-3-(trifluoromethyl)-1H-pyrazole-4-carboxamide (synonym: Penthiopyrad) (100%)

### 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.