

Cyenopyrafen

Hayashi Pure Chemical Ind., Ltd.

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Safety Data Sheet

1. Chemical product and company identification

Product name Cyenopyrafen SDS code D6-04

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

Pyrophoric liquids No classification

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 Oxidizing solids No classification No classification Organic peroxides

Corrosive to metals classification not possible

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 Serious eye damage/eye irritation Category 2B

Respiratory sensitization classification not possible

Skin sensitization Category 1 Germ cell mutagenicity No classification Carcinogenicity Category 1B Reproductive toxicity Category 2 Specific target organ toxicity (single No classification

exposure)

Specific target organ toxicity

(repeated exposure) Aspiration hazard

classification not possible Category 1

Category 1

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

classification not possible

Hazard pictograms (GHS JP)







GHS08 GHS09

Signal word (GHS JP)

Danger

Hazard statements (GHS JP) May cause an allergic skin reaction (H317)

Causes eye irritation (H320) May cause cancer (H350)

Suspected of damaging fertility or the unborn child (H361) 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)

Avoid breathing dust/fume/gas/mist/vapors/spray. (P261)

Wash hands, forearms and face thoroughly after handling. (P264) Contaminated work clothing should not be allowed out of the workplace.

(P272)

Avoid release to the environment. (P273)

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

Response 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) If skin irritation or rash occurs: Get medical advice/attention. (P333+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)

Dispose of contents/container to hazardous or special waste collection Disposal

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
Nume			CSCL no	ISHL no	OAO IIII
Cyenopyrafen	≥95% 、 ≤100%	C24H31N3O2	-	8-(2)-2109	560121-52-0

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

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

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 : Needle crystal

Color : white Odor : Odorless

pH : No data available

Melting point : 106.7 – 108.2 °C

Freezing point : No data available

Boiling point : No data available

Flash point : 194.2 °C (seta closed cup)

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 1.11 g/cm³ (20°C) Relative gas density No data available Solubility Water: 0.3 mg/l (20°C)

Partition coefficient n-

octanol/water (Log Pow)

: 5.6

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 : Nitrogen oxides

products

11. Toxicological information

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

Cyenopyrafen		
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	

Cyenopyrafen		
Serious eye damage/irritation	Category 2B	
Respiratory sensitization	classification not possible	
Skin sensitization	Category 1	
Germ cell mutagenicity	No classification	
Carcinogenicity	Category 1B	
Reproductive toxicity	Category 2	
STOT-single exposure	No classification	
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.

Cyenopyrafen		
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.

Empty the packaging completely prior to disposal. Contaminated container and

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) 3077

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

Packing group (IMDG) Ш 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) **B**3

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

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

Air transport(IATA)

UN-No. (IATA) 3077

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

Packing group (IATA) Ш 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)

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 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

Industrial Safety and Health Law Not applicable

Japanese Poisonous and

Deleterious Substances Control Law

Water Pollution Prevention Law

Substances Not Considered Deleterious (Designating Order Art.2)

Organic cyanide compounds and their preparations

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

Fire Service Law

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)

Miscellaneous dangerous substances & articles (Hazardous materials Civil Aeronautics Law

notice Appended Table 1 Article 194 of the Enforcement Regulations)

Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment Waste Management on Public Order Art.2-4)

Cleansing Law

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 (Act Art.2 para. 2,

Enforcement Oder Art.1 Appended Table No.1)

(E)-2-(4-tert-Butylphenyl)-2-cyano-1-(1,3,4-trimethylpyrazol-5-yl)vinyl

2,2-dimethylpropanoate (synonym: Cyenopyrafen) (100%)

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).

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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.