

Cyflumetofen

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 9/9/2022 SDS code: Q9-13 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name : Cyflumetofen SDS code : Q9-13

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 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

Health hazards

Physical hazards Explosives No classification

Flammable gases

Aerosol

Oxidizing gases

Oxidizing gases

Gases under pressure

Flammable liquids

No classification

No classification

No classification

Flammable solids classification not possible

Self-reactive substances and

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

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

No classification

Acute toxicity (inhalation:vapors) classification not possible Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation No classification
Serious eye damage/eye irritation No classification

Respiratory sensitization classification not possible

Skin sensitization Category 1
Germ cell mutagenicity No classification
Carcinogenicity Category 2
Reproductive toxicity No classification

Specific target organ toxicity (single classification not possible

exposure)

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Specific target organ toxicity

(repeated exposure)
Aspiration hazard

classification not possible classification not possible

Category 2 (adrenal)

Environmental hazards

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

Hazardous to the aquatic environment, long-term (chronic)

Category 1

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)







GHS07

GHS08 GHS09

Signal word (GHS JP) : Warning

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

Suspected of causing cancer (H351)

May cause damage to organs (adrenal) 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)

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.

(P280)

Response : IF ON SKIN: Wash with plenty of water. (P302+P352)

IF exposed or concerned: Get medical advice/attention. (P308+P313)

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

If skin irritation or rash occurs: Get medical advice/attention. (P333+P313) Take off contaminated clothing and wash it before reuse. (P362+P364)

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

	Concentration or Concentration range	Formula	Kanpo number		
Name			CSCL no	ISHL no	CAS RN
Cyflumetofen	≧96% 、 ≦100%	C24H24F3NO4		7-(4)-1065	400882-07-7

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. SDS code: Q9-13 Version: 01

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. May induce explosion of containers by heating.

Hazardous decomposition products

in case of fire

Explosion hazard

Firefighting instructions

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

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 : Powder
Color : white
Odor : Odorless

pH : No data available Melting point : 77.9 - 81.7 °C Freezing point : No data available

Boiling point : 269.2 °C

Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure 3.1×10⁻⁵ Pa (25°C) Relative density No data available Density 1.2 g/cm³ (20°C) Relative gas density No data available

Solubility : Soluble in acetone. Soluble in dichloromethane. Soluble in ethyl acetate.

Soluble in n-hexane. Soluble in methanol. Soluble in toluene.

Water: 0.00281 mg/l (20°C)

Partition coefficient n-

octanol/water (Log Pow)

: 4.3

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. Stable up to 293%. Stable in

weakly acidic solvents. Unstable in alkaline solvents.

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

Hazardous decomposition : Nitrogen oxides, Fluorine and its compounds

products

11. Toxicological information

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

Cyflumetofen			
Acute toxicity (oral)	No classification		
Acute toxicity (dermal)	No classification		
Acute toxicity (gas)	No classification		

Cyflumetofen	
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation	No classification
Respiratory sensitization	classification not possible
Skin sensitization	Category 1A
Germ cell mutagenicity	No classification
Carcinogenicity	Category 2
Reproductive toxicity	No classification
STOT-single exposure	classification not possible
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.

Cyflumetofen		
Hazardous to Aquatic Environment - Acute Hazard	classification not possible	
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 : Empty the packaging completely prior to disposal.

packaging Empty containers should be taken for recovery

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) : 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

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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) : 9L

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)

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

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)

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)

[After amendment of April 2023]

Class 1 Designated Chemical Substances (Act, Art.2, Para.2,

Enforcement Order, Art.1 Appended Table 1)

2-Methoxyethyl 2-(4-tert-butylphenyl)-2-cyano-3-oxo-3-(2-

trifluoromethylphenyl)propanoate (synonym: Cyflumetofen) (100%)

Soil Contamination

Countermeasures Law

Designated Hazardous Substances (Act Art.2 Para.3, Enforcement

Order Art.1)

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.