

Fenquinotrione

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 6/10/2024 SDS code: YC-13 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name : Fenquinotrione

SDS code : YC-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.

classification not possible

Do not use in the environment.

2. Hazards identification

GHS classification

Health hazards

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

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

Oxidizing liquids No classification

Oxidizing solids
Organic peroxides
Corrosive to metals
Desensitized explosives
Acute toxicity (oral)

Classification not possible classification not possible

Acute toxicity (dermal) classification not possible
Acute toxicity (inhalation:gas) classification not possible
Acute toxicity (inhalation:vapors) classification not possible
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 Category 1

Germ cell mutagenicity classification not possible carcinogenicity classification not possible Reproductive toxicity classification not possible Specific target organ toxicity (single classification not possible

exposure)

Specific target organ toxicity

(repeated exposure)

classification not possible classification not possible

Aspiration hazard

Hazardous to the aquatic environment, short-term (acute) Category 2

Category 2

Hazardous to the aquatic

Hazardous to the ozone layer

environment, long-term (chronic)

classification not possible

Hazard pictograms (GHS JP)

Environmental

hazards





GHS07

GHS09

Signal word (GHS JP) Warning

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

Toxic to aquatic life with long lasting effects (H411)

Precautionary statements (GHS JP)

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

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.

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

> 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)

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 |
|----------------|---|--------------|--------------|---------|--------------|
| Name | | | CSCL no | ISHL no | OAO KII |
| Fenquinotrione | ≧95%、≦100% | C22H17CIN2O5 | - | - | 1342891-70-6 |

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

. May induce explosion of containers by neating.

in case of fire

In case of fire, product may produce irritative or toxic fumes/gases.

Firefighting instructions : If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

fire at a stroke using appropriate fire-extinguishers.

ine at a stroke using appropriate ine 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.

Ar filling.

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 : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)
Skin and body protection : Impervious aprons, Impervious work clothing, Impervious long boots

9. Physical and chemical properties

Physical state : Solid
Appearance : Powder

Color light yellow ~ yellow Odor No data available рΗ No data available Melting point 217 - 220 °C Freezing point No data available Boiling point No data available No data available Flash point No data available Auto-ignition temperature Decomposition temperature No data available Flammability No data available Vapor pressure 1.68×10⁻⁴ Pa (25°C)

Relative density : No data available

Density : 1.445 g/cm³ (20°C)

Relative gas density : No data available

Solubility : Water: 73.0mg/L (pH5), 3835mg/L (pH7)
Partition coefficient n- : 2.91(pH1), 1.59(pH4), -0.33(pH7)

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.

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

Hazardous decomposition : Nitrogen oxides, Chlorine and its compounds

products

11. Toxicological information

| • | | |
|---------------------------------------|-----------------------------|--|
| Fenquinotrione | | |
| Acute toxicity (oral) | classification not possible | |
| Acute toxicity (dermal) | classification not possible | |
| Acute toxicity (gas) | classification not possible | |
| Acute toxicity (vapour) | classification not possible | |
| 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 | Category 1 | |
| Germ cell mutagenicity | classification not possible | |

| Fenquinotrione | | |
|------------------------|-----------------------------|--|
| 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

| Fenquinotrione | | |
|--|-----------------------------|--|
| Hazardous to Aquatic Environment - Acute Hazard | Category 2 | |
| Hazardous to Aquatic Environment - Chronic Hazard | Category 2 | |
| 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) : 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

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.

30kgG

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 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

Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1,

4 based on July 4, 2023)

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

Fire Service Law

Not applicable

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Miscellaneous dangerous substances & articles (Dangerous Goods Ship Safety Act

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) Not applicable

16. Other information

Handbook of 17524 Chemical Products, The Chemical Daily Co, Ltd. Data sources

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.