

Fluxametamide

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 7/22/2022 SDS code: YB-02 Version: 01

Safety Data Sheet

1. Chemical product and company identification

Product name : Fluxametamide

SDS code : YB-02

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

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 classification not possible

contact with water emit flammable

gases

Oxidizing liquids No classification

Oxidizing solids classification not possible
Organic peroxides classification not possible
Corrosive to metals classification not possible
Desensitized eplosives classification not possible

Health hazards 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) classification not possible

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

Respiratory sensitization classification not possible

Skin sensitization No classification

Germ cell mutagenicity classification not possible Carcinogenicity classification not possible

Reproductive toxicity Category 1A

Reproductive toxicity (effects on or Additional category

via lactation)

SDS code: YB-02 Version: 01

> Specific target organ toxicity (single No classification

exposure)

Specific target organ toxicity

(repeated exposure)

No classification

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) Danger

Hazard statements (GHS JP) May damage fertility or the unborn child (H360)

May cause harm to breast-fed children (H362)

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.

Do not breathe dust/fume/gas/mist/vapors/spray. (P260) Avoid contact during pregnancy and while nursing. (P263) 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: Get medical advice/attention. (P308+P313)

Collect spillage. (P391)

Store locked up. (P405) Storage

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	Formula	Kanpo number		CAS RN
Name	Concentration range		CSCL no	ISHL no	CASIM
Fluxametamide	≥94%、<100% (Provisional value)	C20H16Cl2F3N3O3	-	8-(7)-1823	928783-29-3
Toluene	≦0.9% (Impurity)	C7H8	(3)-2,(3)-60	-	108-88-3

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.

SDS code: YB-02

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

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.

SDS code: YB-02 Version: 01

Material used in : Light shielding airtight container.

packaging/containers

Technical measures : Comply with applicable regulations.

Storage temperature : Refrigerate: 2-10°C

8. Exposure controls / Personal protection equipment

Exposure limit values	
Toluene	
Japan administration level	20ppm
Exposure limits (JSOH)	50ppm(188mg/m3)(skin)
Exposure limits (ACGIH)	TWA 20 ppm,STEL -

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 : Solid
Color : whitish

Odor : No data available

pH : 7 (1w/v% aqueous solution, suspension)

Melting point : 173.0 - 173.8 °C Freezing point : No data available

Boiling point : $301 \,^{\circ}\text{C}$ Flash point : $\geq 400 \,^{\circ}\text{C}$

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : 2x10⁻⁹ Pa (20°C)

Relative density : No data available

Density : 1.43 g/cm³

Relative gas density : No data available

Relative gas density : No data available
Solubility : Soluble in methanol.
Partition coefficient n- : 5.0 (HPLC method)

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, Fluorine and its compounds

products

11. Toxicological information

Fluxametamide	
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
Skin sensitization	No classification
Germ cell mutagenicity	classification not possible
Carcinogenicity	No classification
Reproductive toxicity	No classification
STOT-single exposure	No classification
STOT-repeated exposure	No classification
Aspiration hazard	classification not possible
Toluene	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
	No classification
Acute toxicity (vapour)	Category 4
Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist)	
	Category 4
Acute toxicity (inhalation:dust/mist)	Category 4 classification not possible
Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation	Category 4 classification not possible Category 2
Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/irritation	Category 4 classification not possible Category 2 Category 2B
Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory sensitization	Category 4 classification not possible Category 2 Category 2B classification not possible
Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory sensitization Skin sensitization	Category 4 classification not possible Category 2 Category 2B classification not possible No classification
Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity	Category 4 classification not possible Category 2 Category 2B classification not possible No classification No classification classification not possible Category 1A
Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	Category 4 classification not possible Category 2 Category 2B classification not possible No classification No classification classification classification not possible Category 1A Category 1 Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)
Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity	Category 4 classification not possible Category 2 Category 2B classification not possible No classification No classification Classification classification not possible Category 1A Category 1 Category 3 (Narcosis) Category 3 (Respiratory tract irritation.) Category 1
Acute toxicity (inhalation:dust/mist) Skin corrosion/irritation Serious eye damage/irritation Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	Category 4 classification not possible Category 2 Category 2B classification not possible No classification No classification classification classification not possible Category 1A Category 1 Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)

12. Ecological information

Fluxametamide		
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	
Toluene		
Hazardous to Aquatic Environment - Acute Hazard	Category 2	
Hazardous to Aquatic Environment -	Category 2 Category 3	
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment -	<u> </u>	
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard	Category 3	
Hazardous to Aquatic Environment - Acute Hazard Hazardous to Aquatic Environment - Chronic Hazard Persistence and degradability	Category 3 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

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) 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 IBC08 IBC packing instructions (IMDG) IBC special provisions (IMDG) **B**3

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

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) 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. Conform to the provisions of the Civil Aeronautics Law. Regulatory information by air 171

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

Chemical Substances Control Law Industrial Safety and Health Law

Priority Assessment Chemical Substances (Law Article 2, Para.5)

Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,

Attached Table No.9)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9) Toluene (Ordinance number: 407)

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

SDS code: YB-02 Version: 01

Water Pollution Prevention Law

Designated Chemical Substances (Law Article 2, Paragraph 4,

Enforcement Order Article 3-3)

Fire Service Law

: Not applicable

Offensive Odor Control Law

: Specified Offensive Odor Substances (Law Art.2-1, Enforcement

Order Art.1)

Air Pollution Control Law

: Hazardous Air Pollutants, Priority Substances (Central Environment

Council Report No. 9)

Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice

to Prefectures)

Foreign Exchange and Foreign

Trade Control Act
Ship Safety Act

: Export Trade Control Ordinance appendix 1-16

: 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)

Not applicable

Labor Standards Act

: Chemical Substances Causing Occupational Illnesses (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item 4-1,MHLW Nortification

No.36 of 1978

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.