

Ethofenprox

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 1/14/2015 Revision date: 6/30/2022 SDS code: S4-13 Version: 02

Safety Data Sheet

1. Chemical product and company identification

Product name Ethofenprox SDS code S4-13

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Emergency number 06-6910-7305

Recommended use For a research and experimental use only.

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

on a human body or for animal medicines, foods, household products,

cosmetics, etc. Do not use in a natural environment.

2. Hazards identification

GHS classification

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

mixtures

No classification

No classification Pyrophoric liquids Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

No classification

gases

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

classification not possible Corrosive to metals 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) No classification 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 classification not possible Germ cell mutagenicity classification not possible Carcinogenicity classification not possible

Reproductive toxicity No classification

Specific target organ toxicity (single Category 1 (central nervous system)

exposure)

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Specific target organ toxicity (single Category 3 (Narcosis)

exposure)

Specific target organ toxicity Category 2 (kidneys, liver)

(repeated exposure)

Aspiration hazard classification not possible

Environmental Hazardous to the aquatic Category 1 hazards

environment, short-term (acute)

Hazardous to the aquatic Category 1

environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)







GHS09

GHS07

Signal word (GHS JP) Danger

Hazard statements (GHS JP) May cause drowsiness or dizziness (H336)

GHS08

Causes damage to organs (central nervous system) (H370) May cause damage to organs (kidneys, liver) through prolonged or

repeated exposure (H373)

Very toxic to aquatic life with long lasting effects (H410)

Precautionary statements (GHS JP)

Prevention 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) Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Response IF INHALED: Remove person to fresh air and keep comfortable for

breathing (P304+P340)

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 in a well-ventilated place. Keep container tightly closed.

(P403+P233)

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
Ethofenprox	≧95%、≦100%	C25H28O3	(3)-3981	4-(14)-178	80844-07-1

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.

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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.

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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

Exposure limit values			
Ethofenprox			
Exposure limits (JSOH)	3mg/m3		

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 : Crystalline powder

Color : white

Odor Slightly aromatic odor pΗ No data available 36.4 - 38.0 °C Melting point Freezing point No data available Boiling point 200 °C (0.18mmHg) Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure 6.79×10⁻⁹ mmHg (25°C)

Relative density : No data available

Density : 1.172 g/cm³ (20°C)

Relative gas density : No data available

Solubility : Soluble in glycerol. Soluble in acetone. Soluble in n-hexane. Soluble in

kerosene. Soluble in benzene. Water: 0.00408 mg/l (25°C)

Partition coefficient n-

octanol/water (Log Pow)

7.05 (25°C)

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 in water, acids and alkalis.

May deteriorate due to light.

Possibility of hazardous reactions

: May react with strong oxidizing agents.

Conditions to avoid : Sunlight, heat. Contact with strong oxidizing agents.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

No data available

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11. Toxicological information

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

Ethofenprox		
Acute toxicity (oral)	No classification	
Acute toxicity (dermal)	No classification	
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	No classification	
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	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	No classification	
STOT-single exposure	Category 1 Category 3 (Narcosis)	
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.

Ethofenprox		
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 : 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
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 Revision date: 6/30/2022 SDS code: S4-13 Version: 02

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) : 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 : 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)

2-(4-Ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether

(Ordinance number: 86)

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

Not applicable

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)

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)

2-(4-Ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether;

etofenprox (100%)

[After amendment of April 2023]

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

Enforcement Order, Art.1 Appended Table 1)

2-(4-Ethoxyphenyl)-2-methylpropyl 3-phenoxybenzyl ether (synonym:

Etofenprox) (100%)

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

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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.