



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 24-Apr-2024

Revision Number 2.03

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Ethiofencarb Standard
Product Code	051-04033

Supplier FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

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**Recommended uses** For research use only

**Restrictions on use**Seek expert judgment when using for purposes other than those recommended.

# **Section 2: HAZARDS IDENTIFICATION**

**GHS** classification

Classification of the substance or mixture

Acute toxicity - Oral Category 3
Specific target organ toxicity (repeated exposure) Category 2

Category 2 liver

Acute aquatic toxicityCategory 1Chronic aquatic toxicityCategory 1

### **Pictograms**



# Hazard statements

H301 - Toxic if swallowed

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H373 - May cause damage to the following organs through prolonged or repeated exposure: liver

#### **Precautionary statements-(Prevention)**

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- Avoid release to the environment

# Precautionary statements-(Response)

- · Get medical advice/attention if you feel unwell
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Rinse mouth
- Collect spillage

# Precautionary statements-(Storage)

· Store locked up

### Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

**Others** 

Other hazards Not available

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula C11H15NO2S

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Ethiofencarb	98.0	225.31	N/A	4-(6)-300	29973-13-5

Note on ISHL No.: \* in the table means announced chemical substances.

# **Section 4: FIRST AID MEASURES**

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### **Eve contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### **Protection of first-aiders**

Use personal protective equipment as required.

# **Section 5: FIRE FIGHTING MEASURES**

### Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

### Unsuitable extinguishing media

No information available

# Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Special extinguishing method

No information available

#### Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

# Section 6: ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

#### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

# Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

#### Recoverly, neutralization

No information available

# Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Section 7: HANDLING AND STORAGE

#### Handling

#### **Technical measures**

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

#### Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

## Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed

with an inert gas. Store locked up.

Safe packaging material Glass

Incompatible substances Strong oxidizing agents

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

**Exposure limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

no data available

Personal protective equipment

Respiratory protection Dust mask ( JIS T 8151 )

**Hand protection** chemical protective gloves (JIS T 8116)

**Eye protection** protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to

them.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form** 

**Color** white

Appearance crystals - crystalline powder

Odor
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
Cyaporation rate:
Odorless
31 - 34 °C
no data available
no data available
no data available

Upper/lower flammability or explosive limits

Flammability (solid, gas):

no data available Upper: no data available Lower: Flash point no data available **Auto-ignition temperature:** no data available no data available **Decomposition temperature:** pН no data available no data available Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** 

Solubilities acetone: soluble. water: slightly soluble.

n-Octanol/water partition coefficient:(log Pow) 2.04

Vapour pressureno data availableSpecific Gravity / Relative densityno data availableVapour densityno data availableParticle characteristicsno data available

# **Section 10: STABILITY AND REACTIVITY**

# **Stability**

**Reactivity** no data available **Chemical stability** May be altered by light.

Hazardous reactions

None under normal processing

**Conditions to avoid** 

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

**Hazardous decomposition products** 

Carbon monooxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Sulfur oxides (SOx)

# Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity** 

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Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethiofencarb	227 mg/kg (Rat)	> 1150 mg/kg (Rat) 2500 mg/kg (Rabbit)	> 0.2 mg/L (Rat) 4 h

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
Ethiofencarb	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Ethiofencarb	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

### Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Ethiofencarb	Based on the NITE GHS classification results.

Serious eye damage/ irritation

Chemical Name	Serious eye damage/irritation source information
Ethiofencarb	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Ethiofencarb	Based on the NITE GHS classification results.
Demande of the call most amplication	

Reproductive cell mutagenicity

Ethiofencarb	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Ethiofencarb	Based on the NITE GHS classification results.

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Ethiofencarb	Based on the NITE GHS classification results.

**STOT-single exposure** 

Chemical Name	STOT -single exposure- source information
Ethiofencarb	Based on the NITE GHS classification results.

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information	
Ethiofencarb	Based on the NITE GHS classification results.	
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**Aspiration hazard** 

Chemical Name	Aspiration Hazard source information	
Ethiofencarb	Based on the NITE GHS classification results.	

# **Section 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Ethiofencarb	N/A	N/A	LC50 : Daphnia pulex
			0.22mg/L 48 h

#### Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the	
	aquatic environment source information	aquatic environment source information	
Ethiofencarb	Based on the NITE GHS classification	Based on the NITE GHS classification	
l l	results.	results.	

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

# **Section 13: DISPOSAL CONSIDERATIONS**

# Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **Section 14: TRANSPORT INFORMATION**

ADR/RID

UN number UN2757

Proper shipping name: Carbamate pesticide, solid, toxic (Ethiofencarb)

UN classification 6.

Subsidiary hazard class

Packing group III
Marine pollutant Yes

**IMDG** 

UN number UN2757

**Proper shipping name:** Carbamate pesticide, solid, toxic (Ethiofencarb)

**UN classfication** 6 1

Subsidiary hazard class

**Packing group** Ш Marine pollutant (Sea)

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

**IATA** 

UN2757 **UN** number

Proper shipping name: Carbamate pesticide, solid, toxic (Ethiofencarb)

**UN classfication** 

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

Substance

# **Section 15: REGULATORY INFORMATION**

Japanese regulations

Not applicable Fire Service Act

**Poisonous and Deleterious** Deleterious Substances 3rd. Grade

**Substances Control Law** 

Industrial Safety and Health Act Not applicable

Regulations for the carriage Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance

and storage of dangerous

Regarding Transport by Ship and Storage, Attached Table 1)

Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air

Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

goods in ship **Civil Aeronautics Law** 

**Export Trade Control Order** Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Ethiofencarb 29973-13-5 ( 98.0 )	Applicable	-	-

## **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN) ://www.chem-info.nite.go.jp/chem/chrip/chrip\_search/systemTop

IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

**Record of SDS revisions** The following contents were revised. Prodauct and company Identification.

Composition/information on ingredients. Exposure controls/personal protection.

Toxicological information. Regulatory information.

**Disclaimer** 

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless

specified in the text. GHS Classification is according to JIS Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**