



## SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 17-May-2023 Revision Number 2.07

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Fenarimol Standard
Product Code	069-05191
Manufacturer	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome
	Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964
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
Emergency telephone number Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.

## Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute toxicity - Oral Serious eye damage/eye irritation Reproductive Toxicity Specific target organ toxicity (single exposure) Category 2 nervous system Specific target organ toxicity (repeated exposure) Category 2 liver, kidneys, adrenal gland Acute aquatic toxicity Chronic aquatic toxicity

Category 4 Category 2B Category 2 Category 2

Category 1 Category 2

Pictograms



Warning

#### **Hazard statements**

- H320 Causes eye irritation
- H302 Harmful if swallowed
- H361 Suspected of damaging fertility or the unborn child
- H411 Toxic to aquatic life with long lasting effects
- H400 Very toxic to aquatic life
- H371 May cause damage to the following organs: nervous system
- H373 May cause damage to the following organs through prolonged or repeated exposure: liver, kidneys, adrenal gland

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

Obtain special instructions before use

- Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- · Do not breathe dust/fume/gas/mist/vapors/spray
- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- Avoid release to the environment

## Precautionary statements-(Response)

- · IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- · If eye irritation persists: Get medical advice/attention
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- 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

#### C17H12Cl2N2O

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Fenarimol	98.0	331.20	N/A	N/A	60168-88-9
Note on ISHL No.: * in the table means announced chemical substances.					

Impurities and/or Additives: Not applicable

## 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.

#### Eye 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.

#### <u>Storage</u>

Safe storage conditions
Storage conditions
Safe packaging material
Incompatible substances

Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Glass 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 limitsThis product, as supplied, does not contain any hazardous materials with occupational<br/>exposure limits established by the region specific regulatory bodies.Personal protective equipment<br/>Respiratory protection<br/>Hand protection<br/>Eye protection<br/>Skin and body protectionDust mask (JIS T 8151 )<br/>chemical protective gloves (JIS T 8116 )<br/>protective eyeglasses or chemical safety goggles<br/>Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	
Color	white
Appearance	crystals - powder
Odor	characteristic odor
Melting point/freezing point	120 °C
Boiling point, initial boiling point and boiling range	no data available
Flammability	no data available
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower flammability or	
explosive limits	
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
рН	no data available
Viscosity (coefficient of viscosity)	no data available
Dynamic viscosity	no data available
Solubilities	acetone : soluble .
n-Octanol/water partition coefficient:(log Pow)	no data available
Vapour pressure	no data available
Specific Gravity / Relative density	1.41
Vapour density	no data available
Particle characteristics	no 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), Halides

## Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Fenarimol	814 mg/kg(Rat)	> 2000 mg/kg(Rat)	> 2.04 mg/L (Rat)4 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
l onannoi			Based on the NITE GHS classification results.
Chemical Name	Acute toxicity -inhalation	Acute toxicity -inhalation dust-	Acute toxicity -inhalation mist-

	-	city -inhalation dust-Acute to	
vapor	- source information source	ce information so	urce information
Fenarimol Based or	n the NITE GHS Based on th	e NITE GHS Based on	the NITE GHS
classifica	tion results. classification	n results. classifica	tion results.

## Skin irritation/corrosion

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

Aspiration Hazard source information

Based on the NITE GHS classification results.

Chemical Name	Serious eye damage/irritation source information
Fenarimol	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
Fenarimol	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	
Chemical Name	germ cell mutagencity source information
Fenarimol	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
Fenarimol	Based on the NITE GHS classification results.
Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
Fenarimol	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
Fenarimol	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
Fenarimol	Based on the NITE GHS classification results.
Fenaninoi	
Aspiration hazard	

# Section 12: ECOLOGICAL INFORMATION

## Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Fenarimol	ErC50: Green arge	LC50 : Lepomis macrochirus	N/A
	5.1 mg/L	0.9 mg/L 96 h	

#### Other data

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

No information available
No information available
No information available
No information available

**Chemical Name** 

Fenarimol

## 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 Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN3077 Environmentally hazardous substance, solid, n.o.s. (Fenarimol) 9 III Yes
IMDG	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Fenarimol)
UN classfication	9
Subsidiary hazard class	
Packing group	
Marine pollutant (Sea)	Yes
Transport in bulk according to	
Annex II of MARPOL 73/78 and	
the IBC Code	
	1102077
UN number	UN3077
Proper shipping name: UN classfication	Environmentally hazardous substance, solid, n.o.s. (Fenarimol) 9
Subsidiary hazard class	9
Packing group	111
Environmentally Hazardous	Yes
Substance	

#### Section 15: REGULATORY INFORMATION International Inventories EINECS/ELINCS Listed TSCA Listed Japanese regulations **Fire Service Act** Not applicable Not applicable Poisonous and Deleterious **Substances Control Law** Industrial Safety and Health ActNot applicable Regulations for the carriage Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding and storage of dangerous Transport by Ship and Storage, Attached Table 1) goods in ship **Civil Aeronautics Law** Misellaneous Dangerous Substances and Articles (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-) **Export Trade Control Order** Not applicable Section 16: OTHER INFORMATION Key literature references and NITE: National Institute of Technology and Evaluation (JAPAN) sources for data etc. http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

	etc
<b>Record of SDS revisions</b>	The following contents were revised. Prodauct and company Identification. Exposure
	controls/personal protection. 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

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

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

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

End of Safety Data Sheet