

Issued date:

Apr. 01, 2021

FEN-01/SDS

Safety Data Sheet

Identification

Product name Japanese Pharmacopoeia Fenofibrate Reference Standard

Supplier Name Pharmaceutical and Medical Device Regulatory Science Society of Japan

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Recommended use This product is an analytical reagent.

Restrictions on use It is not a medicine or clinical diagnostic agent, so it can not be used for human or animals.

Hazard Identification

GHS Classification of chemicals

Physicochemical hazards Not classified.

Health hazards

Specific target organ toxicity - Repeated exposure Category 2 (liver)

Environmental hazards

Hazardous to the aquatic environment - Long-

term (Chronic) hazard

Label elements Pictograms



Signal word

Hazard statement May cause damage to organs (liver) through prolonged or repeated exposure

May cause long lasting harmful effects to aquatic life

Precautionary statement [Prevention]

Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid release to the environment.

[Response]

Get medical advice/attention if you feel unwell.

[Disposal]

Dispose of contents/container in accordance with local/regional/national/international regulations.

Composition / Information on Ingredients

Substance / Mixture Substance. Chemical name Fenofibrate.

Synonym / common name

CAS No. 49562-28-9 Component and concentration or

concentration range

100%

ENCS: -

Reference Number in Gazetted List in Japan

ISHL: 7-(4)-955

Component contributing to GHS

No data available.

classification

First-Aid Measures

Inhalation Remove victime to fresh air and keep comfortable for breathing.

Get medical attention if irritation develops and persists.

Skin contact Rinse skin with water/shower.

Get medical attention if irritation develops and persists.

Eye contact Rinse with water.



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Get medical attention if irritation develops and persists.

Ingestion

If ingestion of a large amount dose occur, call a doctor/physician immediately.

Most important symptoms/effects,

acute and delayed

Protection of first-aiders Wear personal protective equipment as required.

Indication of immediate medical attention Provide the symptomatic treatment.

and special treatment needed

Fire-Fighting Measures

Suitable extinguishing media Water spray, foam, dry chemical, carbon dioxide.

Unsuitable extinguishing media No data available

Specific hazards arising from the chemical Irritating, toxic or corrosive gases may be generated by a fire.

No data available.

product

Special extinguishing method Use standard firefighting procedures and consider the hazards of other involved materials.

> As with all fires, evacuate personnel to a safe area. Use water spray to cool unopened containers.

Protection of fire-fighters Wear suitable protective equipment.

Accidental Release Measures

Personal precautions, protective Keep unnecessary personnel away.

equipment and emergency procedures Ensure adequate ventilation.

> Avoid inhalation of dust or vapor etc from the spilled material. See section 8 of the SDS, wear suitable protective equipment.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions

Methods and materials for containment

and cleaning up

Avoid release to the environment. Collect spillage in an appropriate way.

Clean surface thoroughly to remove residual contamination.

For waste disposal, see section 13 of the SDS.

Handling and Storage

Handling Technical measures See section 8 of the SDS, perform engineering controls and wear protective equipment.

See section 8 of the SDS, perform local ventiration or general ventilation.

When handling Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors Safety handling precautions

associated with the material.

After removing gloves, wash hands and other exposed skin thoroughly.

Avoid release to the environment.

Wear personal protective equipment.

Contact avoidance

See section 10 of the SDS.

Storage Safe storage conditions Keep container tightly closed.

Safe packaging material Store in an appropriate container according to applicable laws and regulations.

Exposure Controls/Personal Protection

Administrative Control Levels

Occupational Exposure Limits Estimated Exposure Level TWA: 480 µg/m³, 8 hours

Engineering controls Install an eyewash facilities and a safety shower in the workplace where this material is stored or

handled.

Install general ventilation system and local exhaust ventilation.

Use a laboratory fume hood, vented enclosure, glovebox, or other effective containment.

Personal protective equipment

Respiratory protection Wear appropriate respiratory protection (e.g., dust mask, gas mask). Hand protection Wear appropriate protective gloves (e.g., chemically compatible gloves).

Eye protection Wear appropriate eye protection/face protection (e.g., safety glasses with side shields, goggle-type

protective glasses).

Skin and body protection Wear appropriate protective clothing (e.g., lab coat, long sleeve work clothes).

Physical and Chemical Properties and Safety Characteristics



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Physical state Solid: Crystalline powder.

Colour White.

Odour No data available.

Melting point/Freezing point 80 to 83°C

Flammability No data available. Boiling point or initial boiling point and No data available.

boiling range

Flash point

Lower and upper explosion limit/ flammability limit

Lower limit(%)

Upper limit (%)

No data available.

No data available.

No data available.

Auto-ignition temperature 540°C (Godbert Greenwald)

Decomposition temperature No data available. pH No data available. Kinematic viscosity No data available. Solubility Water $0.17 \text{ mg/L } (20^{\circ}\text{C})$

Other Soluble in organic solvents such as ethanol (1 mg/mL), DMF (30 mg/mL), DMSO (15 mg/mL).

Soluble in acetone, ether, benzene, chloroform.

Partition coefficient n-octanol/water (log

value)

Vapor pressure No data available.

Density and/or relative density 0.5 kg/L

Relative vapor density No data available.
Particle characteristics No data available.

Other information

Minimal energy of ignition $-4.5~\text{mJ} < \text{Median particle size } 11.3~\mu\text{m} > 5.9~\text{mJ}$

Log Pow: 4.78

Volume resistivity $1.2 \times 10^{12} \Omega m$

10. Stability and Reactivity

Reactivity No reactivity hazards known.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction under conditions of normal use.

Conditions to avoid Dust condition. Heat, Flame, spark.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions. Chlorydrate

compounds. HCl.

11. Toxicological Information

Acute toxicity

The maximum recommended human dose is 300 mg a day.

The lowest efficacious human clinical dose is 145 mg.

The lowest emcacious numan chinical dose is 145 mg

May be harmful by inhalation (after often repeated exposure).

 Tests
 Species
 Results

 Oral LD50
 Rat
 > 3200 mg/kg

 > 2000 mg/kg

 Mouse
 1600 mg/kg

 Hamster
 > 5000 mg/kg

 Dog
 > 4000 mg/kg

Skin corrosion / irritation No adverse effects are normally expected.

In vitro study: no skin irritation.

Serious eye damage / eye irritation In vitro study: no eye irritation.

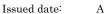
Mechanical irritation from the particulates generated by the product.

Respiratory sensitization No

Skin sensitization

No data available.

Tests Species Results





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0.4 g Sensitizing potential (modified Magnusson- Guinea pig

Kligman method)

Phototoxity study Fenofibrate provoked neither phototoxicity nor

photoallergenicity.

Persons sensitive to other benzophenones or

fibrate agents

May also be sensitive to this material.

No allergic (sensitizing) reaction.

Germ cell mutagenicity

Tests	Results
Ames test	Negative.
Mouse lymphoma test	Negative.
Chromosomal aberration test	Negative.
unscheduled DNA synthesis test	Negative.

Carcinogenicity Fenofibrate displays a tumorogenic tendency in rodents for 3 organ systems: the liver (nodules and

hepatocellular carcinoma), the pancreas (acinar cell adenomas and adenocarcinomas) and the testis

(interstitial Leydig cell tumors).

There is no evidence in man of any excess of hepatic tumors.

The carcinogenic effects observed in animals have not been demonstrated in humans.

Reproductive toxicity

Tests	Results
Studies in mice, rats and rabbits	Any teratogenic effect were not revealed.
High doses test in rats and rabbits.	Fenofibrate has been shown to be embryocidal.
Test in rats' female	Negative impact on fertility was noted.

Specific target organ toxicity - Single

exposure

No data available.

Specific target organ toxicity - Repeated exposure

The STOT classification is based on liver effects that are observed in humans during use.

Tests Results Prolonged exposure test in rat's liver. NOEL: 13 mg/kg. Prolonged exposure test in dog NOEL: 25 mg/kg.

Aspiration hazard No data available.

Other information

Active pharmaceutical

ingredient

Lipid-lowering drug.

Adverse effects May include diarrhea, gas, nausea, vomiting, constipation, rash, itching, stuffy nose, muscle pain,

chills and fever.

They were generally not severe and tended to resolve when treatment was stopped.

2. Ecologi	ical Information				
Ecotoxicity		Substance lightly soluble in water, n	Substance lightly soluble in water, making irrelevant the acute toxicity studies.		
		No inhibitory effects observed in activated sludge (30 'and 3 hours).			
	Tests	Species	Results		
	Crustacea EC50	Daphnia magna	> 0.15 mg/L, 48 hours		
	Fish NOEC	Brachydanio rerio	0.047 mg/L, mortality, 30 days		
	Reproduction test in	Daphnia magna	EC50: > 0.12 mg/L, 21 days		
	crustacea		NOEC: 0.12 mg, 21 days		
	Algae EC50	Selenastrum capricornutum	> 0.102 mg/L, 72 hours		
Persistence	and degradability				
	Abiotic degradation	Aerobic degradation study concludes with a low risk of persistence in the environment.			
Bioaccumul	lative potential				
	log Kow	Log Pow: 4.78 (20°C): potentially bioaccumulative.			
	BCF	Low to moderate potential to bioaccumulate.			



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Mobility in soil

Distribution Soil/ sediments: percolation non-significant

Water/ soil: low solubility and mobility.

Adsorption/Desorption log KOC: 4.36

Hazard to the ozone layer This substance is not listed in the Annex to the Montreal Protocol.

Disposal Considerations

Information on safe and environmentally desirable disposal or recycling of chemicals, contaminated containers and packaging.

Dispose in a safe manner in accordance with national and local regulations.

When empty containers are discarded, contents should be completely removed.

Transport Information

UN Number

Not regulated.

Proper shipping name

Hazard class

Subsidiary hazard class

Packing group

Domestic Rail and road restriction Marine

Not regulated. Not regulated.

Aviation

Not regulated.

Regulatory Information

Japanese regulations

Pollutant Release and Transfer

Not regulated.

Register

Poisonous and Deleterious

Not regulated.

Substances Control Act

Industrial Safety and Health Act

Not regulated.

Fire Service Act

Not regulated.

Other Information

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References

Ministry of Health, Labour and Welfare: GHS model SDS information

Japan Science and Technology Agency.: J-GLOBAL

National Institute of Technology and Evaluation: NITE Chemical Risk Information Platform (NITE-

CHRIP)

etc.

The information in this Safety Data Sheet is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification of this product. The information provided is correct to the best of our knowledge, information and belief at the date of its publication and so on. However, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity.