



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision Date 19-Feb-2021

Version 4.02

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product name	Silafluofen Reference Material	
Product code	198-16261	

Manufacturer FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741

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 and

restrictions on use

+81-6-6203-3741 / +81-3-3270-8571

For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Short-term (acute) hazardous to the aquatic environment Long-term (chronic) hazardous to the aquatic environment

Category 2 Category 2

Pictograms



Signal word

none

Hazard statements

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements-(Prevention)

Avoid release to the environment

Precautionary statements-(Response)

· Collect spillage

Precautionary statements-(Storage)

Not applicable

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 C25H29FO2Si

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
silafluofen	99.0	408.58	(3)-4195	4-(3)-59	105024-66-6

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.

Indestion

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

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

Highly flammable. Avoid contact with high temperature objects, spark, and 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

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

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.

Personal protective equipment

Respiratory protection Protective mask Hand protection Protective gloves

Eye protection protective eyeglasses or chemical safety goggles

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color Colorless - slightly yellow

Turbidity clear Appearance liquid

Odor No data available
Melting point/freezing point No data available

Boiling point, initial boiling point and boiling range 170 °C

Flammability

Evaporation rate:
No data available
No data available
Flammability (solid, gas):
No data available

Upper/lower flammability or

explosive limits

Upper :No data availableLower :No data available

Flash point 255 °C

Auto-ignition temperature:No data availableDecomposition temperature:No data availablepHNo data availableViscosity (coefficient of viscosity)No data availableDynamic viscosityNo data available

Dynamic viscosity

No data available
acetone: soluble. water: practically insoluble, or insoluble.

n-Octanol/water partition coefficient:(log Pow) 8.2

Vapour pressure No data available

Specific Gravity / Relative density 1.08

Vapour density No data available

Particle characteristics

No data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity
Chemical stability
No data available
May be altered by light.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Halides,

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
silafluofen	5000mg/kg	5000mg/kg	N/A

Skin irritation/corrosionNo data availableSerious eye damage/ irritationNo data availableRespiratory or skin sensitizationNo data availableReproductive cell mutagenicityNo data available

Carcinogenicity

Chemical Name	NTP	IARC	ACGIH	JSOH (Japan)
silafluofen		Group 2A		
105024-66-6		· ·		

Reproductive toxicityNo data availableSTOT-single exposureNo data availableSTOT-repeated exposureNo data availableAspiration hazardNo data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
silafluofen	N/A	N/A	EC50:7.7mg/l(Dapnia magna,
			24 hrs)

Other data No data available

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 UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (silafluofen)

UN classfication

Subsidiary hazard class Packing group Ш Marine pollutant Yes

IMDG

UN number UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (silafluofen)

UN classfication

Subsidiary hazard class **Packing group** Ш Marine pollutant (Sea) Yes

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and the IBC Code

IATA

UN number UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (silafluofen)

UN classfication

Subsidiary hazard class

Packing group Ш **Environmentally Hazardous** Yes

Substance

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS TSCA

Japanese regulations

Category IV, Class IV petroleums, dangerous grade 3 Fire Service Act

Poisonous and Deleterious Not applicable

Substances Control Law

Industrial Safety and Health Act Not applicable

Regulations for the carriage

and storage of dangerous

goods in ship

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Transport by Ship and Storage, Attached Table 1)

Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification **Civil Aeronautics Law**

for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Not applicable

Register Law

Export Trade Control Order Not applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

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

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

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

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 Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet