



# SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 02-Oct-2023

Revision Number 2.04

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Cyclosulfamuron Standard
Product Code	033-18901

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

**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 aquatic toxicityCategory 1Chronic aquatic toxicityCategory 1

**Pictograms** 



Signal word Warning

**Hazard statements** 

H410 - Very toxic to aquatic life with long lasting effects

H400 - Very toxic to aquatic life

**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 C17H19N5O6S

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Cyclosulfamuron	99.0	421.43	N/A	N/A	136849-15-5

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.

**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.

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 Dust mask ( JIS T 8151 )

**Hand protection** chemical protective gloves (JIS T 8116) **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 White - pale brown

Appearancecrystalline powder - powder

Odorno data availableMelting point/freezing point162.0 °C (dec.)Boiling point, initial boiling point and boiling rangeno data availableFlammabilityno data available

**Evaporation rate:**Flammability (solid, gas):
no data available
no data available

Upper/lower flammability or

explosive limits

Upper: no data available no data available Lower: no data available Flash point Auto-ignition temperature: no data available **Decomposition temperature:** no data available no data available pН no data available Viscosity (coefficient of viscosity) **Dynamic viscosity** no data available **Solubilities** acetone: soluble. n-Octanol/water partition coefficient:(log Pow) no data available Vapour pressure no data available no data available Specific Gravity / Relative density Vapour density no data available

no data available

**Particle characteristics** 

# **Section 10: STABILITY AND REACTIVITY**

# Stability

no data available Reactivity 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** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Cyclosulfamuron	> 5000 mg/kg ( Rat )	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
0,0.00			Based on the NITE GHS classification results.

Chemical Name	Chemical Name Acute toxicity -inhalation		Acute toxicity -inhalation mist-
	vapor- source information	source information	source information
Cyclosulfamuron	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	
Cyclosulfamuron	Based on the NITE GHS classification results.	
Sprious ava damago/irritation		

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

Respiratory or skin sensitization

ttoophiatory or other control	
Chemical Name	Respiratory or Skin sensitization source information
Cyclosulfamuron	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information	
Cyclosulfamuron	Based on the NITE GHS classification results.	
Carolnogonioity		

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

Reproductive toxicity

Chemical Name	Reproductive toxicity source information
Cyclosulfamuron	Based on the NITE GHS classification results.
STOT-single exposure	
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	Chemical Name	STOT -single exposure- source information	
	Cyclosulfamuron	Based on the NITE GHS classification results.	
_	STOT reported exposure		

**Chemical Name** 

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

STOT -repeated exposure- source information

# **Section 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Cyclosulfamuron	ErC50 : Pseudokirchneriella	LC50 : Cyprinus carpio	EC50 : Daphnia magna
	subcapitata	> 7 mg/L 96 h	> 9.1 mg/L 48 h
	0.0035 mg/L 72 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
Cyclosulfamuron	Based on the NITE GHS classification	Based on the NITE GHS classification
	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 UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Cyclosulfamuron)

UN classfication

Subsidiary hazard class

Packing group III
Marine pollutant Yes

**IMDG** 

UN number UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Cyclosulfamuron)

UN classfication

Subsidiary hazard class
Packing group

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 UN3077

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Cyclosulfamuron)

UN classfication Subsidiary hazard class

Packing group III
Environmentally Hazardous Ye

Substance

Yes

# **Section 15: REGULATORY INFORMATION**

Japanese regulations

Fire Service Act Not applicable
Poisonous and Deleterious Not applicable

Substances Control Law

Industrial Safety and Health Act Not applicable

Regulations for the carriage and storage of dangerous

Noxious Substances (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1)

and storage of dangerou goods in ship Civil Aeronautics Law

Transport by Ship and Storage, Attached Table 1)

Misellaneous Dangerous Substances and Articles (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)

Pollutant Release and Transfer Class 2

Register Law (2023.4.1-)

Class 2 - No. 776

**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-)
Cyclosulfamuron 136849-15-5 ( 99.0 )	-	-	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 Z 7252:2019. \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**