



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 12-Jan-2023 Revision Number 5.02

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Flumiclorac-pentyl Standard
Product Code	067-04771
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 and restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only

Section 2: HAZARDS IDENTIFICATION

GHS classification <u>Classification of the substance or mixture</u> Acute aquatic toxicity Chronic aquatic toxicity

Category 2 Category 2

Pictograms



None

Hazard statements

- H411 Toxic to aquatic life with long lasting effects
- H401 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

C21H23CIFNO5

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Flumiclorac-pentyl	98.0	423.86	N/A	N/A	87546-18-7
Note on ISHL No.:	* in the	table means announ	ced chemical substa	inces.	-

Not applicable Impurities and/or Additives:

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.

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

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

Precautions Do not rough handling container scattering. Not to generate stear then gargle In places other than	ng agents. Use with local exhaust ventilation. s, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and n and dust in vain. Seal the container after use. After handling, wash hands and face, and those specified, should not be smoking or eating and drinking Should not be brought ent and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the	
Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.		
Storage 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, sea and eye-wash facility. And displa	al the source or use a local exhaust system. Provide the safety shower facility, and hand- ay 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 Hand protection Eye protection Skin and body protection General hygiene considerations

Dust mask Protection gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	white
Color	crystalline powder - powder
Appearance	no data available
Odor	no data available
Melting point/freezing point	no data available
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	no data available
explosive limits	no data available
Upper:	no data available
Lower:	no data available
Flash point	no data available
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available

Specific Gravity / Relative density Vapour density Particle characteristics no data available no data available 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), Halides, Nitrogen oxides (NOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

no data available no data available no data available no data available no data available

no data available no data available no data available no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

Persistence and degradability
Bioaccumulative potentialNo information available
No information available
No information available
No information available
No information availableMobility in soil
Hazard to the ozone layerNo 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 Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN3077 Environmentally hazardous substance, solid, n.o.s. (Flumiclorac-pentyl) 9 III Yes
IMDG	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Flumiclorac-pentyl)
UN classfication	9
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	
UN number	UN3077
Proper shipping name:	Environmentally hazardous substance, solid, n.o.s. (Flumiclorac-pentyl)
UN classfication	9
Subsidiary hazard class	
Packing group	III
Environmentally Hazardous	Yes
Substance	

Section 15: REGULATORY INFORMATION

International Inventories EINECS/ELINCS TSCA

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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 Transport by Ship and Storage, Attached Table 1) and storage of dangerous goods in ship 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** (~2023.3.31) Pollutant Release and Transfer Not applicable **Register Law** (2023/4/1~) Water Pollution Control Act Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinace Designating Wastewater Standards Art.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
	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