

Date of issue: 19 Aug. 2020

SAFETY DATA SHEET

SDS No.504-74 (M20-09)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance/mixture

Product name: **ECOPART 2SC****(Synonym: ECOPART SC2, ET-751 SC2, Pyraflufen-ethyl SC2)**

1.2 Use of the substance/mixture

Herbicide for agriculture

1.3 Company/undertaking identification

Manufacturer

Nihon Nohyaku Co., Ltd.

19-8, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-8386, JAPAN
(ENVIRONMENT SAFETY DEPT. / Phone: 81-3-6361-1426
e-mail: kankyouanzen@nichino.co.jp)

Emergency telephone number

OVERSEAS DIVISION, Nihon Nohyaku Co., Ltd.

19-8, Kyobashi 1-Chome, Chuo-Ku, Tokyo 104-8386, JAPAN
Phone: 81-3-6361-1420 Facsimile: 81-3-6361-1456

UK Connection: Nichino Europe Co., Ltd.

5 Pioneer Court, Vision Park, Histon, Cambridge CB24 9PT, UK
Phone: 44-1223- 855720 Facsimile: 44-1223-233119

USA Connection: Nichino America, Inc.

4550 Linden Hill Road, Suite 501, Wilmington,
Delaware 19808, USA
Phone: 1-302-636-9001 Facsimile: 1-302-636-9122

2. HAZARD IDENTIFICATION

GHS Classification

Environmental hazards

Short-term (acute) aquatic hazard Category 1

Long-term (chronic) aquatic hazard Category 1

Other hazards described above are "Not classified", "No classification" or "Classification not possible".

GHS label elements

Pictogram



Signal word

Warning

Hazard statement

Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

Precautionary statement

[Prevention]

■ Avoid release to the environment.

[Response]

■ Collect spillage.

[Storage]

[Disposal]

- Dispose of contents or container in accordance with local regulations.

Other hazards: Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture
 Ingredient and composition
 Active ingredient: Ethyl 2-chloro-5-(4-chloro-5-difluoromethoxy-1-methylpyrazol-3-yl)-4-fluorophenoxyacetate (IUPAC name)
 (Common name: Pyraflufen-ethyl)

Component

Ingredient	%(w/w)	CAS No.
Pyraflufen-ethyl	2.0	129630-19-9
Ethylene glycol	>1 - =<5	107-21-1
1,2-Benzisothiazolin-3-one	<0.05	2634-33-5
Surface active agent, water etc.		-

4. FIRST-AID MEASURES

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention

Skin contact: Remove contaminated clothing. Wash skin with plenty of water and soap. If irritation persists, get medical attention. Contaminated clothing should be washed before reuse.

Ingestion: If swallowed, rinse mouth with water, and give one or two glasses of water to drink. Keep patient at rest and get medical attention. Do not induce vomiting.

Inhalation: Remove patient to fresh air, keep warm and at rest. Get medical attention if you feel unwell.

5. FIRE-FIGHTING MEASURES

Fire-fighting procedure: Firefighters should wear proper protective equipment and self-breathing apparatus. Avoid inhalation gas and contact with skin and eyes. Avoid extinguishing media such as water and foam, to flow into pond, river and lake due to danger of acute toxicity to aquatic organisms.

Unusual fire or explosion hazard: None

Hazardous combustion products: Carbon dioxide, carbon monoxide and nitrogen oxides etc.

Extinguishing media: Water spray, Foam, Dry chemical powder, Carbon dioxide

6. ACCIDENTAL RELEASE MEASURES

Evacuate non-essential personnel. Wear proper protective equipment. Carefully adsorb spillage onto sand, soil or any suitable adsorbent material. Transfer to a container for disposal. Wash the spillage area with detergent and water. Washing must be prevented from entering surface water or drains due to danger of acute toxicity to aquatic organisms.

7. HANDLING AND STORAGE

Handling: Use with adequate ventilation. Avoid contact with skin and eyes. Do not breathe mist or vapour. Wash face and hands thoroughly with soap and water after handling the material.

Storage: Keep locked up and out of reach of children in a cool, dark and well-ventilated place. Keep in original containers tightly closed. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Exposure limits values

INGREDIENT	Exposure limits		
	OSHA ^{#1}	ACGIH ^{#2}	JSOH ^{#3}
Pyraflufen-ethyl	–	–	–

^{#1}: Occupational Safety and Health Administration

^{#2}: American Conference of Governmental Industrial Hygienist

^{#3}: Japan Society for Occupational Health

–: Not established

8.2 Exposure control

Engineering controls: Use with local exhaust ventilation. Make available in the work area emergency shower and eye wash.

Personal protective equipment:

Respiratory protection: Avoid breathing mist or vapour. Use approved respiratory protection equipment when airborne exposure limits are exceeded

Eye protection: Wear chemical safety goggles.

Hand, skin and body protection:

Wear suitable gloves and protective clothes. Launder contaminated clothes and clean protective equipment. Wash hand and skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Whitish viscous liquid

Odour: Non-specific odour

pH: 6.0 ~ 8.0 (1% aqueous suspension)

Melting point: No data available

Initial boiling point and boiling range: No data available

Flash point: No flash observed at temperatures up to 110°C.

Evaporation rate: No data available

Flammability (solid, gas): Not applicable

Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	1.02 ~ 1.03 (20°C)
Solubility:	No data available
Partition coefficient:	Not applicable
Auto ignition temperature:	Not applicable
Decomposition temperature:	No data available
Viscosity:	35 ~ 50 mPa·s
Explosive properties:	No explosive properties
Oxidizing properties:	No data available

10. STABILITY AND REACTIVITY

Chemical stability:	This product considered to be stable under normal warehouse conditions.
Incompatibility with other materials:	Not known
Hazardous decomposition products:	Combustion or thermal decomposition will evolve toxic and irritant vapours (CO, NOx etc.).
Hazardous polymerization:	Not known

11. TOXICOLOGICAL INFORMATION

Acute toxicity:		
Oral:	Rat LD ₅₀ (mg/kg)	male, female >5000 (No animals died at a dose level of 5000 mg/kg.)
Dermal:	Rat LD ₅₀ (mg/kg)	male, female >2000 (No animals died or showed significant clinical signs at a dose level of 2000 mg/kg.)
Inhalation:	Rat LC ₅₀ (mg/L/4h)	male, female >5.53 (No animals died at a dose level of 5.53 mg/L/4h.)
Skin corrosion/irritation:	Rabbit	Non irritant
Serious eye damage/irritation:	Rabbit	Non irritant
Respiratory sensitization:	No data available	
Skin sensitization:	Guinea pig	Negative (Maximization test)
Germ cell mutagenicity:	No data available	
Carcinogenicity:	No data available	
Reproductive toxicity:	No data available	
Specific target organ toxicity (Single exposure):		
No adverse effect was observed at or above the guidance dose values of Category 2 in acute oral, acute dermal and acute inhalation toxicity study with rats.		
Specific target organ toxicity (Repeated exposure):	No data available	
Aspiration hazard:	No data available	

12. ECOLOGICAL INFORMATION

Aquatic organism toxicity (Short-term): Category 1

Bluegill sunfish	LC ₅₀ (96h)	>190 mg/L
Rainbow trout:	LC ₅₀ (96h)	>126 mg/L
Daphnia ^{#4} :	EC ₅₀ (48h)	>100 mg/L
		^{#4} : <i>Daphnia magna</i>
Algae ^{#5} :	ErC ₅₀ (72h)	0.025 mg/L
		^{#5} : <i>Pseudokirchneriella subcapitata</i>

Aquatic organism toxicity (Long-term): Category 1

Algae ^{#6} :	NOECr (72h)	0.0016 mg/L
		^{#6} : <i>Pseudokirchneriella subcapitata</i>

13. DISPOSAL CONSIDERATIONS

Excess product and rinsate should be disposal of according to label instructions and/or local regulations. Dispose used container according to the local regulations. Repealing liquid containing pyraflufen-ethyl should be avoided flowing into river, pond and lake due to danger of acute toxicity to aquatic organisms.

14. TRANSPORT INFORMATION

Follow the precaution indicated in the HANDLING AND STORAGE section. Confirm that the material does not leak and treat carefully not to break the packing. Follow all regulations in your country.

UN Classification:	Class 9
	UN Number 3082 (Environmentally hazardous substance, liquid, N.O.S. (pyraflufen-ethyl mixture))
	Packaging group III
IMDG Code:	Marine pollutant

15. REGULATORY INFORMATION

Users should ensure that they comply with any relevant local, state or national legislation.

16. OTHER INFORMATION

References

1. Globally Harmonized System of Classification and Labelling of Chemicals (GHS), sixth revised edition. United Nations, 2015

The information herein is given in good faith, but not warranty. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of product. It is not applicable to unusual or non-standard uses of product, nor where instructions or recommendations are not followed.
