

Pyraflufen-ethyl, reference material

R1082-10MG

Version 1.1

Revision Date 03.11.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Pyraflufen-ethyl, reference material

SDS-number : 000000015752

Type of product : Substance

Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.
A registration number is not available for this substance as the
substance or its uses are exempted from registration.

Chemical name : Pyraflufen-ethyl

Index-No. : 613-203-00-X

REACH Registration Number : no data available

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Reference Standard
Laboratory chemicals

Uses advised against : none

1.3. Details of the supplier of the safety data sheet

Company : Honeywell Specialty Chemicals Seelze GmbH
Wunstorfer Straße 40
30926 Seelze
Germany
Telephone : (49) 5137-999 0
Telefax : (49) 5137-999 123
For further information, please contact: PMTEU Product Stewardship:
SafetyDataSheet@Honeywell.com

Honeywell International, Inc.
115 Tabor Road
Morris Plains, NJ 07950-2546
USA

1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)
+1-303-389-1414 (Medical)

Country based Poison Control Center : see chapter 15.1

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Short-term (acute) aquatic hazard Category 1

H400 Very toxic to aquatic life.

Long-term (chronic) aquatic hazard Category 1

H410 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

REGULATION (EC) No 1272/2008

Hazard pictograms

:



Signal word

:

Warning

Hazard statements

:

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements

:

P273
P280

Avoid release to the environment.

Wear protective gloves/ eye protection/
face protection.

2.3. Other hazards

None known. Results of PBT and vPvB assessment, see chapter 12.5.

SECTION 3: Composition/information on ingredients

3.1. Substance

| Chemical name | CAS-No. Index-No. REACH Registration Number EC-No. | Classification 1272/2008 | Concentration | Remarks |
|------------------|--|--|---------------|-----------------|
| Pyraflufen-ethyl | 129630-19-9 613-203-00-X | Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | 100 % | 1* M = 1.000 |

1* - For specific concentration limits see Annexes of 1272/2008

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3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation:

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Call a physician immediately.

Skin contact:

After contact with skin, wash immediately with plenty of water. Call a physician immediately.

Eye contact:

Protect unharmed eye. Remove contact lenses. Rinse thoroughly with plenty of water, also under the eyelids. Call a physician immediately.

Ingestion:

Rinse mouth with water. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

no data available

4.3. Indication of any immediate medical attention and special treatment needed

no data available

See Section 11 for more detailed information on health effects and symptoms.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Extinguishing media which shall not be used for safety reasons:

High volume water jet

5.2. Special hazards arising from the substance or mixture

Fire may cause evolution of:

Carbon oxides
nitrogen oxides
Chlorine compounds
Pyrolysis products containing fluoride

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

No unprotected exposed skin areas.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use a solid water stream as it may scatter and spread fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Wear personal protective equipment. Unprotected persons must be kept away. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Use mechanical handling equipment.

Pick for disposal in tightly closed containers

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6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Exhaust ventilation at the object is necessary. Wear personal protective equipment.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures:

Take off all contaminated clothing immediately. Recommended preventive skin protection Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Further information on storage conditions:

Recommended storage temperature: 2 - 8 °C

German storage class:

Combustible Solids

7.3. Specific end use(s)

no additional data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

DNEL/ PNEC-Values

No DNEL-data available.

No PNEC data available.

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8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.
Do not breathe dust.

Engineering measures

Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection:

In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection:

Glove material: Natural Latex

Break through time: > 480 min

Glove thickness: 0,6 mm

Lapren®706

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer's directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection:

Safety goggles

Skin and body protection:

Protective suit

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Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|---------------------------|
| Form | : solid |
| Colour | : white |
| Odour | : odourless |
| molecular weight | : 413,18 g/mol |
| Melting point/range | : ca. 129 °C |
| Boiling point/boiling range | : no data available |
| Flash point | : Not applicable |
| Ignition temperature | : no data available |
| Lower explosion limit | : Not applicable |
| Upper explosion limit | : Not applicable |
| pH | : no data available |
| Water solubility | : 0,00008 g/l at 20 °C |
| Partition coefficient: n-octanol/water | : log Pow 3,49 |

9.2 Other Information

no additional data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

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10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Carbon
nitrogen oxides
Chlorine compounds
Pyrolysis products containing fluoride

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

LD50

Species: Rat

Value: > 5.000 mg/kg

Acute dermal toxicity:

LD50

Species: Rat

Value: > 2.000 mg/kg

Acute inhalation toxicity:

LC50

Species: Rat

Value: > 5,03 mg/l

Exposure time: 4 h

Skin irritation:

Species: Rabbit

Result: No skin irritation

Eye irritation:

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Species: Rabbit

Result: slight irritation

According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation:

Species: Guinea pig

Result: non-sensitizing

Carcinogenicity:

Note: Animal testing did not show any carcinogenic effects.

Germ cell mutagenicity:

Test Method: Ames test

Result: negative

Aspiration hazard:

no data available

Other information:

no data available

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:

LC50

Species: Cyprinus carpio (Carp)

Value: > 0,206 mg/l

Exposure time: 96 h

LC50

Species: Oncorhynchus mykiss (rainbow trout)

Value: > 0,1 mg/l

Exposure time: 96 h

LC50

Species: Lepomis macrochirus (Bluegill sunfish)

Value: > 0,1 mg/l

Exposure time: 96 h

Toxicity to aquatic plants:

EbC50

Species: Pseudokirchneriella subcapitata (green algae)

Value: 0,00023 mg/l

Exposure time: 72 h

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EbC50

Species: Navicula pelliculosa (Freshwater diatom)

Value: 0,0016 mg/l

Exposure time: 72 h

Toxicity to aquatic invertebrates:

EC50

Species: Daphnia magna (Water flea)

Value: > 0,1 mg/l

Exposure time: 48 h

12.2. Persistence and degradability

Biodegradability:

no data available

12.3. Bioaccumulative potential

no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

no data available

12.6. Other adverse effects

Toxic to bees.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

Dispose according to legal requirements.

Packaging:

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:

Provisions relating to waste:

EC Directive 2006/12/EC; 2008/98/EEC

Regulation No. 1013/2006

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For personal protection see section 8.

SECTION 14: Transport information

ADR/RID

UN Number : 3077
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
((2-CHLORO-5-(4-CHLORO-5-DIFLUOROMETHOXY-1-METHYLPYRAZOL-3-YL)-4-FLUOROPHENOXYACETIC ACID
ETHYL ESTER))
Class : 9
Packaging group : III
Classification Code : M7
Hazard Identification Number : 90
ADR/RID-Labels : 9
Environmentally hazardous : yes

IATA

UN Number : 3077
Description of the goods : Environmentally hazardous substance, solid, n.o.s.
((2-Chloro-5-(4-chloro-5-difluoromethoxy-1-methylpyrazol-3-yl)-
4-fluorophenoxyacetic acid ethyl ester))
Class : 9
Packaging group : III
Hazard Labels : 9

IMDG

UN Number : 3077
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
N.O.S.
((2-CHLORO-5-(4-CHLORO-5-DIFLUOROMETHOXY-1-METHYLPYRAZOL-3-YL)-4-FLUOROPHENOXYACETIC ACID
ETHYL ESTER))
Class : 9
Packaging group : III
Hazard Labels : 9
EmS Number : F-A, S-F
Marine pollutant : yes

Not regulated for transport when single and combination packagings are <5L for liquids or <5kg for solids per ADR 2.2.9.2.10, IMDG 2.10.3 and IATA SP A197).

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison Control Center

| Country | Phone Number |
|----------------|------------------------------|
| Austria | +4314064343 |
| Belgium | 070 245245 |
| Bulgaria | (+359)29154233 |
| Croatia | (+3851)23-48-342 |
| Cyprus | +357 2240 5611 |
| Czech Republic | +420224919293; +420224915402 |
| Denmark | 82121212 |
| Estonia | 16662; (+372)6269390 |
| Finland | 9471977 |
| France | +33(0)145425959 |
| Greece | +30 210 779 3777 |
| Hungary | (+36-80)201-199 |
| Iceland | 5432222 |
| Ireland | +353(1)8092166 |
| Italy | +39 0649906140 |
| Germany | Berlin : 030/19240 |
| | Bonn : 0228/19240 |
| | Erfurt : 0361/730730 |
| | Freiburg : 0761/19240 |
| | Göttingen : 0551/19240 |
| | Homburg : 06841/19240 |
| | Mainz : 06131/19240 |
| | Munich : 089/19240 |
| Latvia | +37167042473 |

| Country | Phone Number |
|-----------------|--|
| Liechtenstein | +41 442515151 |
| Lithuania | +370532362052 |
| Luxembourg | 070245245; (+352)80002-5500 |
| Malta | +356 2395 2000 |
| Netherlands | 030-2748888 |
| Norway | 22591300 |
| Poland | +48 42 25 38 400 |
| Portugal | 808250143 |
| Romania | +40 21 318 3606 |
| Slovakia (NTIC) | +421 2 54 774 166 |
| Slovenia | +386 1 400 6051 |
| Spain | +34915620420 |
| Sweden | 112 (begär Giftinformation);+46104566786 |
| Switzerland | 145 |
| United Kingdom | (+44) 844 892 0111 |

Other inventory information

US. Toxic Substances Control Act

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Not On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act
Not in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)
Not in compliance with the inventory

Japan. Kashin-Hou Law List
Not in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)
Not in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act
Not in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)
Not in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand
Not in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Text of H-statements referred to under heading 3

Further information

All directives and regulations refer to amended versions.
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community
CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level
vPvB Very persistent and very bioaccumulative substance
PBT Persistent, bioaccumulative and toxic substance

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, use, processing, storage, transportation, disposal and release and is not

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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. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.
