

According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010

PYRIDALYL 50 EC

Ref. S181250ECCLP/ME/120gb

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

1.1. Product identifier Pyridalyl, 500 g/l emulsifiable concentrate

GIFAP Code: EC

EC number: not applicable

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

Insecticide (agricultural use)

Not for public use

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency Telephone number 24/24hrs

Europe +44 (0) 1235 239 670 Middle East & Africa +44 (0) 1235 239 671

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classified as hazardous according to regulation (EC) No 1272/2008 (CLP)

Signal word(s)

Pictogram (s)

Danger



STOT SE Cat 3



Aspir. haz. Cat 1 STOT RE Cat 2



Aquatic Acute Cat 1
Aquatic Chronic Cat 1

Hazard statement(s)

H304: May be fatal if swallowed and enters airways.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Signal word(s)

Danger

Pictogram (s)



STOT SE Cat 3



Aspir. haz. Cat 1 STOT RE Cat 2



Aquatic Chronic Cat 1



According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010

PYRIDALYL 50 EC

Ref. S181250ECCLP/ME/120gb

Hazard statement(s) H304: May be fatal if swallowed and enters airways.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s) P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P314: Get medical advice/attention if you feel unwell.

P331: Do NOT induce vomiting

P403 + P233: Store in a well-ventilated place. Keep container tightly closed. P501: Dispose of contents/container in accordance with local regulation. EUH 401: To avoid risks to human health and the environment, comply with the

instructions for use.

EUH 066: Repeated exposure may cause skin dryness or cracking.

Special risks and safety precautions (Commission Regulation (EU) 547/2011):

General provisions SP 1: Do not contaminate water with the product or its container (Do not clean

application equipment near surface water).

Specific safety precautions SPo 2: Wash all protective clothing after use

SPe 3: To protect aquatic organisms respect an unsprayed buffer zone of (as indicated

on the label) to surface water bodies.

2.3. Other hazards none known

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. This product is to be considered as a mixture in conformance to EU regulations.

Composition/Information on hazardous ingredients

Number	% w/v	CAS number	Chemical name
1	50	179101-81-6	2,6-dichloro-4-(3,3-dichloroallyloxy)phenyl 3-[5-(trifluoromethyl)-2-pyridyloxy]propyl ether
2	≥20	ND	Hydrocarbons, C10, aromatics, <1% naphthalene
3	>1	26264-06-2	calcium dodecylbenzenesulphonate
4	>1	104-76-7	2-ethylhexan-1-ol
5	<1	91-20-3	Naphthalene

Number	EC number	Annex-1 listing	Regl 1272/2008 Pict.	Hazard statements
1	1	no	GHS07, GHS08, GHS09	H317, H373, H400, H410
2	918-811-1	1	GHS07, GHS08, GHS09	H304, H336, H411, EUH066
3	1	1	GHS07, GHS05	H318, H315
4	/	/	GHS07	H319, H315
5	1	/	GHS07, GHS08, GHS09	H302, H351, H410

Other information SCAE code: N12-2

4. FIRST AID MEASURES

Ingestion

4.1. Description of first aid measures

General In all cases of doubt, seek medical attention.

InhalationMove to fresh air. If symptoms persist, seek medical advice.SkinRemove contaminated clothing. Wash skin immediately with water.

Eye Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to

ensure thorough rinsing. Seek medical advice if irritation develops. Rinse mouth. DO NOT induce vomiting. Seek medical advice.

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

Date of revision: 28 May 2015 (Date of previous revision: 7 February 2013; version 1.10)
Version number 1.20 Page 2 of 8



According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010

PYRIDALYL 50 EC

Ref. S181250ECCLP/ME/120gb

May be fatal if swallowed and enters airways; May cause damage to organs through prolonged or repeated exposure; May cause drowsiness or dizziness; Repeated exposure may cause skin dryness or cracking.

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

Symptomatic treatment is advised.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media Dry chemical powder, carbon dioxide, foam, sand.

Unsuitable extinguishing media Water with full waterjet

5.2. Special hazards arising from the substance or mixture

May emit toxic and irritating fumes under fire conditions.

5.3. Advice for fire-fighters Wear self contained breathing apparatus. Wear suitable protective clothing and eye/face

protection.

Other information Water used to extinguish a fire should not be allowed to enter the drainage system or

water courses.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel Avoid contact with skin. Wear protective gloves, safety goggles or face shield, and

suitable protective clothing. Remove of ignition sources. Evacuate the danger area.

For emergency responders Avoid contact with skin. Wear protective gloves (nitrile), safety goggles or face shield,

and suitable protective clothing. Remove of ignition sources.

Evacuate the danger area or consult an expert.

6.2. Environmental precautionsDo not allow to escape into sewage system or water courses. Do not wash residues into

drains or other waterways.

6.3. Methods and material for containment and cleaning up

Containment of a spill Do not allow to escape into sewage system or water courses.

Clean-up procedures In case of spill (liquid), soak it up immediately with suitable absorbent, such as sawdust

or granular absorbent clay. Sweep up and place into sealable containers. Dig up heavily contaminated soil and place into drums. Use a damp cloth to clean floors and other objects, and also place in sealable container. Dispose of all waste and contaminated clothing in the same manner as waste chemicals (i.e. via an authorized disposal facility).

Do not wash residues into drains or other waterways.

6.4. Reference to other sections For personal protection see section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling The usual precautions for handling chemicals should be observed. For personal

protection see section 8.

Fire and explosion prevention Prevent electrostatic discharge. Above the flash point an explosive mixture can be

formed.

Date of revision: 28 May 2015 (Date of previous revision: 7 February 2013; version 1.10)
Version number 1.20 Page 3 of 8



According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010

PYRIDALYL 50 EC

Ref. S181250ECCLP/ME/120gb

7.2. Conditions for safe storage, including any incompatibilities

Storage requirements Store in a dry and cool place. Keep container in a well-ventilated place. Keep away from

food, drink and animal feedingstuffs. Do not drink, eat and smoke in work areas.

Keep container tightly closed.

Other information Do not mix with water (except for the normal preparation).

7.3. Specific end use(s) see label on the container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

There is no national exposure limit for this product.

No chemical safety report is required for this kind of product.

The usual precautions for handling chemicals should be observed.

8.2. Exposure controls

Appropriate engineering controls

Individual protection measures

Provide adequate ventilation.

Respiratory

Wear protective gloves of nitrile Wear safety goggles or face shield.

Hand Eye Skin and body Wear suitable protective clothing. Other information Launder clothes before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Pyridalyl, 500 g/l emulsifiable concentrate Name

Appearance clear liquid (Visual inspection) Colour yellow (Visual inspection)

Odour faint characteristic odour (In-house method)

Odour threshold not determined

pH value 5.25 (1% emulsion in water) (CIPAC MT 75.1)

Melting point/freezing point not determined Initial boiling point & boiling range not determined

66.5°C (CIPAC MT12.2, tag closed tester) Flash point

Evaporation rate not determined not determined **Flammability**

Upper/lower flammability or explosive limits

not determined

Vapour pressure not determined Vapour density not applicable

1.113 g/ml (20°C) (CIPAC MT3.1) Relative density

Bulk density not applicable

dispersible in water (solubility of pyridalyl: 1.5 x 10⁻⁷ g/l, 20°C) (US EPA OPPTS Solubility in water

830.7840 - column elution method)

Solubility in other solvents not applicable

not determined (pyridalyl: log Pow = 8.1, 20°C) (US EPA OPPTS 830.7570) Partition coefficient n-octanol/water

Autoignition temperature 441°C (ASTM D E659)

Decomposition temperature the active substance decomposes at about 227 °C before boiling point is reached

(OECD 102)

14.1 mPa.s (rotational viscometer, 20°C, OECD 114) **Dynamic Viscosity**

Kinematic viscosity calculated based on dynamic viscosity: 12.668 mm2/sec, 20°C

Explosive properties not determined Oxidising properties not determined

Date of revision: 28 May 2015 (Date of previous revision: 7 February 2013; version 1.10) Version number 1.20 Page 4 of 8



According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010

PYRIDALYL 50 EC

Ref. S181250ECCLP/ME/120gb

9.2. Other information

Relative vapour density (air = 1) not determined Surface tension not determined

10. STABILITY AND REACTIVITY

10.1. Reactivity Stable under recommended storage and handling conditions (see also section 7).

10.2. Chemical stabilityStable for a minimum of 2 years under recommended storage and handling conditions

(see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid Avoid high temperature, light, humidity.

10.5. Incompatible materials none known.

10.6. Hazardous decomposition products

May emit toxic and irritating fumes under fire conditions (see also section 5).

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

No experimental toxicological data are available on the preparation as such. The following data are applicable to a formulation of similar composition:

Name Pyridalyl, 500 g/l emulsifiable concentrate (code EQ06)

Acute toxicity

 Oral
 LD50 rat: >2000 mg/kg (OECD 423)

 Dermal
 LD50 rat: >2000 mg/kg (OECD 402)

Inhalation LC50 rat (4 hours): >5.25 mg/l (nose-only exposure) (OECD 403)

Irritation

Skinmildly irritating (OECD 404)Eyemildly irritating (OECD 405)

Sensitization not sensitizing (Buehler test) (OECD 406)

The following data are applicable to the ingredient(s) listed below:

Name Active substance Pyridalyl, technical grade

Other toxicological information - Genotoxicity

in vitro tests: all tests negative, except chromosome aberration test positive with

metabolic activation (OECD 471, 473, 476) in vivo: negative (OECD 474, 486)

Carcinogenicity (rats, mice): no carcinogenic effect (OECD 453, 451)
 Multigeneration reproduction study (rat): negative (OECD 416)

- Teratogenicity studies (rat, rabbit): negative (OECD 414)

- STOT-repeated exposure: lung, liver, adrenals.

Based on the available data, the classification criteria are met for the STOT-RE hazard class.

Information on likely routes of exposure

This product is for agricultural use, therefore the most probable routes of exposure are via skin or inhalation.

12. ECOLOGICAL INFORMATION

Date of revision: 28 May 2015 (Date of previous revision: 7 February 2013; version 1.10)
Version number 1.20 Page 5 of 8



According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010

PYRIDALYL 50 EC

Ref. S181250ECCLP/ME/120gb

12.1. Toxicity

No experimental ecological data are available on the preparation as such. The following data are applicable to the ingredient(s) listed

below.

Name Active substance Pyridalyl, technical grade

Acute toxicity, 96h-LC50 (Oncorhynchus mykiss): 0.50 mg/l (US EPA FIFRA 72-1) Fish

Acute toxicity, 96h-LC50 (Lepomis macrochirus): >24 mg/l (US EPA FIFRA 72-1)

Chronic toxicity, fish early life stage, 89d-NOEC (Oncorhynchus mykiss): 24 µg/l (OECD

Daphnia Acute toxicity, 48h-EC50 (Daphnia magna): 0.0038 mg/l (US EPA FIFRA 72-2)

Chronic toxicity, 21d-NOEC (Daphnia magna): 1.4 µg/l (OECD 211)

Sediment dwelling midge Acute toxicity, 48h-LC50 (Chironomus yoshimatsui): 1.1 mg/l (ASTM Standard No. 729)

Chronic toxicity, 28d-NOEC (Chironomus riparius): 12 µg/l (OECD 219)

Acute toxicity: (OECD 201) **Algae**

72h- EC_r50 and EC_b50, (Pseudokirchneriella subcapitata): > 0.14 mg/l 72h - NOEC (Pseudokirchneriella subcapitata): = 0.14 mg/l (OECD 201)

72h- EC_r50 and EC_b50, (Selenastrum capricornutum): > 10 mg/l 72h - NOEC (Selenastrum capricornutum): = 10 mg/l

72h- EC_r50 and EC_b50, (Navicula pelliculosa): > 0.18 mg/l 72h - NOEC (Navicula pelliculosa): = 0.18 mg/l (OECD 201)

Acute toxicity (Lemna gibba): 7d-EC_r50: > 0.17 mg/l **Aquatic plant**

7d-NOEC: ≥ 0.17 mg/l (US EPA OPPTS 850.4400)

Acute toxicity, LD50, Bobwhite quail: > 2250 mg/kg bw (US EPA FIFRA 71-1) **Birds** Bees Acute contact toxicity, 48h-LD50 (Apis mellifera): >100 µg/bee (OECD 214)

Acute oral toxicity, 48h-LD50 (Apis mellifera): >100 μg/bee (OECD 213)

Earthworms Acute toxicity, 14d-LC50 (Eisenia foetida): >1000 mg/kg dry soil (OECD 207)

Chronic toxicity and reproduction, 56d-NOEC (Eisenia foetida): 63 mg/kg dry soil

(ISO/DIS 11268-2)

Soil micro organisms No significant impact on carbon mineralization or nitrogen transformation at up to 4.0

mg/kg dry soil (OECD 216, 217)

12.2. Persistence and degradability

The following data are applicable to the ingredient(s) listed below:

Name Active substance Pyridalyl, technical grade

Degradation Biotic Not readily biodegradable (OECD 301F - manometric respirometry)

Hydrolysis: stable (US EPA OPPTS 835.2110) **Degradation Abiotic**

Biological methods for sewage treatment

3h-EC50 activated sludge: > 1000 mg/l (OECD 209)

12.3. Bioaccumulative potential

The following data are applicable to the ingredient(s) listed below:

Active substance Pyridalyl, technical grade Name

Bioaccumulation Partition coefficient n-octanol/water log Pow = 8.1 (20°C) (US EPA OPPTS 830.7570)

> Bio Concentration Factor (BCF), exposure 49 days (Lepomis macrochirus): 14853 -18500 (whole fish), depuration time: CT50 = 30 - 31 days (whole fish), (US EPA OPPTS

850.1730)

12.4. Mobility in soil

The following data are applicable to the ingredient(s) listed below:

Name Active substance Pyridalyl, technical grade

> Adsorption K_{Foc} values: 402,000 to 2,060,000 (mean 1,216,000; 1/n 0.99-1.18); Therefore the substance has a low mobility (US EPA OPPTS 835-1220)

12.5. Results of PBT and vPvB assessment

not required (no chemical safety report required).

Date of revision: 28 May 2015 (Date of previous revision: 7 February 2013; version 1.10) Page 6 of 8 Version number 1.20



According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010

PYRIDALYL 50 EC

Ref. S181250ECCLP/ME/120gb

12.6. Other adverse effects no other known adverse effects on the environment.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Substance and/or Mixture According to local regulations. For further advice contact manufacturer.

Contaminated packaging According to local regulations.

14. TRANSPORT INFORMATION

Land transport ADR/RID, Sea transport IMO/IMDG, Air transport ICAO-TI/IATA-DGR:

14.1. UN Number 3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains: pyridalyl)

14.3. Transport hazard class(es)

Land transport ADR/RID class: 9 label: 9

IMO/IMDG code class: 9
Air transport ICAO-TI/IATA-DGR class: 9

14.4. Packing group

14.5. Environmental hazards Marine pollutant: yes

14.6. Special precautions for user EMS: F-A, S-F

no other special precaution required.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the ICB Code

not applicable

15. REGULATORY INFORMATION

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

There is no specific regulation/legislation for this mixture.

15.2. Chemical safety assessment

No chemical safety assessment is required for this mixture.

16. OTHER INFORMATION

Method for evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 used for the purpose of classification:

Classification based on tests and the properties of the active substance.

Changes made to the previous version: section nos 2, 3, 4, 9, 11, 12, were modified to remove any reference to directives 2001/59/EC or 1999/45/EC, add some data and the CLP classification of the mixture and ingredients.

Full text of hazard statement(s) used in this document:

H302: Harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction

H318: Causes serious eye damage

H319: Causes serious eye irritation

H351: Suspected of causing cancer.

Date of revision: 28 May 2015 (Date of previous revision: 7 February 2013; version 1.10)
Version number 1.20 Page 7 of 8



According to Regulation (EC) No 1907/2006 (REACH) and Commission Regulation (EU) No 453/2010

PYRIDALYL 50 EC

Ref. S181250ECCLP/ME/120gb

H373: May cause damage to organs through prolonged or repeated exposure

H336: May cause drowsiness or dizziness

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects H411: Toxic to aquatic life with long lasting effects

EUH066: Repeated exposure may cause skin dryness or cracking

This information only concerns the above mentioned product for the specific use mentioned and is not valid for such product used in combination with any other product. The information is to our best knowledge correct and complete and is given in good faith as of the date indicated. It is the user's responsibility to use this information as appropriate for his own particular use of this product.

(Date of previous revision: 7 February 2013; version 1.10) Page 8 of 8