SUMITOMO CHEMICAL AGRO EUROPE S.A.S.

# SAFETY DATA SHEET
# Pyriproxyfen 10 EC
According to Regulation (EC) No 1907/2006 (REACH)

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

### 1.1. Product identifier

| | |
|---|---|
| **Product name** | Pyriproxyfen 10 EC |
| **Name** | Pyriproxyfen, 100 g/l emulsifiable concentrate |
| **GIFAP Code** | EC |
| **Reference of the SDS** | AL10ECsTN01EU/420gb |
| **Product number** | TN01 |
| **Synonyms; trade names** | Admiral, ADMIRAL 10 EC, Admiral 10 EC, Admiral 10EC |

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

| | |
|---|---|
| **Identified uses** | Insecticide (agricultural use) |
| **Uses advised against** | Not for public use |

### 1.3. Details of the supplier of the safety data sheet

| | |
|---|---|
| **Supplier** | SUMITOMO CHEMICAL AGRO EUROPE S.A.S<br>Parc d'affaires de Crécy<br>10A rue de la voie lactée<br>69370 Saint-Didier-Au-Mont-D'Or<br>France<br>+33 (0)4 78 64 32 60<br>sds@sumitomo-chem.fr |

### 1.4. Emergency telephone number

| | |
|---|---|
| **Emergency telephone** | 24 hours/24<br>Europe: +44 (0) 1235 239 670<br>Middle East & Africa: +44 (0) 1235 239 671 |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (EC 1272/2008)**

| | |
|---|---|
| **Classified as hazardous according to** | regulation (EC) No 1272/2008 (CLP) |
| **Physical hazards** | Not Classified |
| **Health hazards** | Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H336 Asp. Tox. 1 - H304 |
| **Environmental hazards** | Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411 |

### 2.2. Label elements

**Pictogram**

# Pyriproxyfen 10 EC

| | |
|---|---|
| **Signal word** | Danger |
| **Hazard statements** | H304 May be fatal if swallowed and enters airways.<br>H315 Causes skin irritation.<br>H319 Causes serious eye irritation.<br>H336 May cause drowsiness or dizziness.<br>H400 Very toxic to aquatic life.<br>H411 Toxic to aquatic life with long lasting effects. |
| **Precautionary statements** | P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.<br>P302+P352 IF ON SKIN: Wash with plenty of water.<br>P331 Do NOT induce vomiting.<br>P501 Dispose of contents/ container in accordance with local regulations.<br>P261 Avoid breathing fume/gas/mist/vapours/spray.<br>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P405 Store locked up. |
| **Supplemental label information** | EUH401 To avoid risks to human health and the environment, comply with the instructions for use. |
| **Special Risks and safety precautions (Commission Regulation (EU) 547/2011) : General provisions** | SP1 : Do not contaminate water with the product or its container (Do not clean application equipment near surface water). |
| **Special Risks and safety precautions (Commission Regulation (EU) 547/2011): Specific safety precautions** | SPo 2: Wash all protective clothing after use.<br>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.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

**Classification according to Regl 1272/2008**

### 3.2. Mixtures

**Classification according to Regl 1272/2008**

| | |
|---|---|
| **Hydrocarbons, C10, aromatics, <1% naphthalene** | **> 20%** |
| CAS number: — | EC number: 918-811-1 |
| **Classification**<br>STOT SE 3 - H336<br>Asp. Tox. 1 - H304<br>Aquatic Chronic 2 - H411 | |

# Pyriproxyfen 10 EC

**4-phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether** **11.19%**

CAS number: 95737-68-1 EC number: 429-800-1

M factor (Acute) = 10 M factor (Chronic) = 1000

**Classification**
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

**Benzenesulfonic acid, C10-13-(linear)alkyl derivs., calcium salt** **> 1 - < 3%**

CAS number: 90194-26-6 EC number: 932-231-6

**Classification**
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Aquatic Chronic 3 - H412

**2-ethylhexan-1-ol** **> 1 - < 10%**

CAS number: 104-76-7

**Classification**
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
STOT SE 3 - H335

**NAPHTHALENE** **> 0.1 - < 1%**

CAS number: 91-20-3 EC number: 202-049-5

M factor (Acute) = 1 M factor (Chronic) = 1

**Classification**
Acute Tox. 4 - H302
Carc. 2 - H351
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

**Composition comments** All percentages displayed expressed as weight/weight.

**Other information** Code ID : TN01

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information** If in doubt, get medical attention promptly.

**Inhalation** Move affected person to fresh air at once. If symptoms persist, seek medical advice.

**Ingestion** Rinse mouth. Do NOT induce vomiting. Get medical attention.

**Skin contact** Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice if irritation develops.

# Pyriproxyfen 10 EC

**Eye contact** Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.

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

**Human Health** May be fatal if swallowed and enters airways. Causes skin irritation. Causes eye irritation. May cause drowsiness or dizziness.

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

**Notes for the doctor** Symptomatic treatment is advised.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Dry chemical powder. Carbon dioxide (CO2). Foam.

**Unsuitable extinguishing media** None known.

### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** In case of fire: Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Nitrous gases (NOx).

### 5.3. Advice for firefighters

**Protective actions during firefighting** Water used to extinguish a fire should not be allowed to enter the drainage system or water courses.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** Avoid contact with skin and eyes. Do not breathe spray. 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 and eyes. Do not breathe spray. 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 precautions

**Environmental precautions** Do 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.

**Methods for cleaning up** 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

**Reference to other sections** For personal protection, see Section 8.

# Pyriproxyfen 10 EC

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | |
|---|---|
| **Fire and explosion prevention** | Keep away from sources of ignition - No smoking. Prevent electrostatic discharges. Above the flash point, an explosive mixture can be formed (in presence of a flame). |
| **Usage precautions** | Follow precautions for safe handling described in this safety data sheet.<br>Avoid spilling.<br>Do not allow to escape into sewage system or water courses. |
| **Advice on general occupational hygiene** | Do not eat, drink or smoke when using this product. |

### 7.2. Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| **Storage precautions** | Store in tightly-closed, original container in a dry and cool place. Keep container in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. |
| **Other information** | Do not mix with water (except for the normal preparation).<br>Store away from incompatible materials (see Section 10). |

### 7.3. Specific end use(s)

| | |
|---|---|
| **Specific end use(s)** | See label on the container. |

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

According to local regulations.
No chemical safety report is required for this kind of product.

### 8.2. Exposure controls

| | |
|---|---|
| **Appropriate engineering controls** | Provide adequate ventilation. |
| **Eye/face protection** | Wear safety goggles or face shield. |
| **Hand protection** | Wear protective gloves made of the following material: Nitrile rubber. |
| **Other skin and body protection** | Wear appropriate clothing to prevent any possibility of skin contact. |
| **Hygiene measures** | Wash contaminated clothing before reuse. |
| **Respiratory protection** | The usual precautions for handling chemicals should be observed. |

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| **Name** | Pyriproxyfen, 100 g/l emulsifiable concentrate (Code ID : TN01) |
| **Appearance** | Clear liquid. (Visual assessment) |
| **Colour** | Slightly yellowish. (Visual assessment) |
| **Odour** | Aromatic solvent-based characteristic odour. (Olfactory assessment) |
| **Odour threshold** | Not determined. |
| **pH** | pH (diluted solution): 5.6 (1%) @ 20°C (CIPAC MT 75.2) |
| **Melting point** | Not applicable. |

# Pyriproxyfen 10 EC

| | |
|---|---|
| **Initial boiling point and range** | Not determined. |
| **Flash point** | 69°C Closed cup. (EEC A.9) |
| **Evaporation rate** | Not determined. |
| **Flammability (solid, gas)** | Not flammable. ( based on ingredients ) |
| **Upper/lower flammability or explosive limits** | Not determined. |
| **Vapour pressure** | Not determined. |
| **Vapour density** | Not applicable. |
| **Relative density** | 0.92 g/ml @ 20°C (EEC A.3) ( oscillating densitometer ) |
| **Bulk density** | Not applicable. |
| **Solubility(ies)** | Emulsifiable in water. ( Pyriproxyfen : Solubility : 0.37 mg/l water @ 25°C (EPA CG-1500) ) |
| **Solubility in other solvents** | Not applicable. |
| **Partition coefficient** | Not determined. ( Pyriproxyfen : log Pow: = 5.37 @ 25°C (Shake-flask method) (OECD 107) ) |
| **Auto-ignition temperature** | 420°C (EEC A.15) |
| **Decomposition Temperature** | Not determined. ( Pyriproxyfen : > 318°C (boiling point) ) |
| **Viscosity** | 2.7 mPa s, Dynamic viscosity @ 40°C (OECD 114)<br>2.95 mm²/s, Kinematic viscosity @ 40°C (calculated from dynamic viscosity, using density) |
| **Explosive properties** | Not explosive. (EEC A.14) |
| **Oxidising properties** | Not oxidising. (EEC A.21) |

### 9.2. Other information

| | |
|---|---|
| **Relative vapour density (air = 1)** | Not determined. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

| | |
|---|---|
| **Reactivity** | Stable under recommended storage and handling conditions. See also section 7. |

### 10.2. Chemical stability

| | |
|---|---|
| **Stability** | Stable for a minimum of 2 years under recommended storage and handling conditions. See section 7. |

### 10.3. Possibility of hazardous reactions

| | |
|---|---|
| **Possibility of hazardous reactions** | None known. |

### 10.4. Conditions to avoid

| | |
|---|---|
| **Conditions to avoid** | Avoid high temperature, light, humidity. |

### 10.5. Incompatible materials

| | |
|---|---|
| **Materials to avoid** | Strong oxidising agents. |

### 10.6. Hazardous decomposition products

| | |
|---|---|
| **Hazardous decomposition products** | In case of fire: Thermal decomposition may evolve toxic and irritant vapours. See also section 5. |

# Pyriproxyfen 10 EC

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Name** Pyriproxyfen, 100 g/l emulsifiable concentrate (Code ID : TN01)

**Acute toxicity - oral**

**Acute toxicity oral** $LD_{50}$ 4733 mg/kg, Oral, male, Rat
$LD_{50}$ 3773 mg/kg, Oral, female, Rat
(OECD 401)

**Acute toxicity - dermal**

**Acute toxicity dermal** $LD_{50}$ > 2000 mg/kg, Dermal, Rabbit (OECD 402)

**Acute toxicity - inhalation**

**Acute toxicity inhalation** $LC_{50}$, 4 hours: > 3.1 mg/l, nose only, maximum feasible concentration, Inhalation, Rat (OECD 403)

**Skin corrosion/irritation**

**Skin corrosion/irritation** Irritant. (OECD 404)

**Serious eye damage/irritation**

**Serious eye damage/irritation** Irritant. (OECD 405)

**Skin sensitisation**

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. (OECD 406)

**General information** Based on the available data of these ingredients, the classification criteria are met for the following classes : skin irritation. eye irritation. aspiration hazard. STOT SE.

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

**Toxicological information on ingredients.**

**4-phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether**

**Name** Pyriproxyfen, technical grade

**Acute toxicity - oral**

**Acute toxicity oral** $LD_{50}$ > 5000 mg/kg, Oral, Rat (OECD 401)

**Acute toxicity - dermal**

**Acute toxicity dermal** $LD_{50}$ > 2000 mg/kg, Dermal, Rat (OECD 402)

**Acute toxicity - inhalation**

**Acute toxicity inhalation** $LC_{50}$, 4 hours: > 1.3 mg/l, whole body, maximum feasible concentration, Inhalation, Rat (OECD 403)

**Skin corrosion/irritation**

**Skin corrosion/irritation** Not irritating. (OECD 404)

**Serious eye damage/irritation**

**Serious eye damage/irritation** Mildly irritating. (OECD 105)

**Skin sensitisation**

**Skin sensitisation** Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. (OECD 406)

# Pyriproxyfen 10 EC

**Germ cell mutagenicity**

| | |
|---|---|
| **Genotoxicity - in vitro** | Negative. |
| **Genotoxicity - in vivo** | Negative. |

**Carcinogenicity**

| | |
|---|---|
| **Carcinogenicity** | (rats, mice) : No carcinogenic effect. (OECD 453) |

**Reproductive toxicity**

| | |
|---|---|
| **Reproductive toxicity - fertility** | Multi-generation study - Negative., Oral, Rat (OECD 416) |
| **Reproductive toxicity - development** | Teratogenicity: Negative., Oral, Rat, Rabbit (OECD 414) |
| **General information** | Based on the available data of these ingredients, no classification criteria are met for any of these hazard classes. |
| **Route of exposure** | This product is for agricultural use; therefore the most probable routes of exposure are via skin or inhalation. |

## SECTION 12: Ecological Information

### 12.1. Toxicity

| | |
|---|---|
| **Name** | Pyriproxyfen, 100 g/l emulsifiable concentrate (Code ID : TN01) |

**Acute aquatic toxicity**

| | |
|---|---|
| **Acute toxicity - aquatic invertebrates** | Pyriproxyfen, 100 g/l emulsifiable concentrate (Code ID : C611)<br>$EC_{50}$, 48 hours: 1.8 mg/l, Daphnia magna<br>(OECD 202) |
| **Acute toxicity - fish** | Pyriproxyfen, 100 g/l emulsifiable concentrate (Code ID : C611)<br>$LC_{50}$, 96 hours: 2.1 mg/l, Oncorhynchus mykiss (Rainbow trout)<br>(OECD 203) |
| **Acute toxicity - algae** | Pyriproxyfen, 100 g/l emulsifiable concentrate (Code ID : C611)<br>$EC_{50}$, 72 hours: 0.63 mg/l, Selenastrum capricornutum<br>NOEC, 72 hours: 0.24 mg/l, Selenastrum capricornutum<br>(OECD 201) |
| **Acute toxicity - terrestrial** | $LD_{50}$, 48 hours, oral: > 100 µg/bee, Apis Mellifera (Honeybee)<br>(OECD 214)<br>$LD_{50}$, 48 hours, contact: 74 µg/bee, Apis Mellifera (Honeybee)<br>(OECD 213) |

**Ecological information on ingredients.**

**4-phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether**

| | |
|---|---|
| **Name** | Pyriproxyfen, technical grade |

**Acute aquatic toxicity**

| | |
|---|---|
| **LE(C)$_{50}$** | 0.01 < L(E)C50 ≤ 0.1 |
| **M factor (Acute)** | 10 |
| **Acute toxicity - aquatic invertebrates** | $EC_{50}$, 48 hours: 0.4 mg/l, Daphnia magna<br>(US EPA Pesticide Assessment Guidelines 72-2)) |

# Pyriproxyfen 10 EC

| | |
|---|---|
| **Acute toxicity - fish** | $LC_{50}$, 96 hours: > 0.325 mg/l, Oncorhynchus mykiss (Rainbow trout)<br>(US EPA Pesticide Assessment Guidelines 72-1)<br>$LC_{50}$, 96 hours: > 0.270 mg/l, Lepomis macrochirus (Bluegill)<br>(US EPA Pesticide Assessment Guidelines 72-1) |
| **Acute toxicity - aquatic plants** | EC50fd&b, 14 days: > 0.18 mg/l, Lemna gibba<br>NOECfd&b, 14 days: 0.18 mg/l, Lemna gibba<br>(FIFRA 122-2 & 123-2 : US EPA 1982) |
| **Acute toxicity - algae** | $EC_{50}$, 72 hours: 0.064 mg/l, Selenastrum capricornutum<br>NOEC, 72 hours: 0.020 mg/l, Selenastrum capricornutum<br>(OECD 201) |
| **Acute toxicity - microorganisms** | $EC_{50}$, 3 hours: > 100 mg/l, Activated sludge<br>(OECD 209) |
| **Acute toxicity - terrestrial** | $LD_{50}$, 48 hours, oral, contact: > 100 µg/bee, Apis Mellifera (Honeybee)<br>(OECD 213/214)<br>$LC_{50}$, 48 hours: > 1906 mg/kg, Colinus Virginianus (Bobwhite Quail)<br>(US EPA Pesticide Assessment Guidelines No. 71-1)<br>$LC_{50}$, 48 hours: > 1906 mg/kg, Anas Platyrhynchos (Mallard duck)<br>(US EPA Pesticide Assessment Guidelines No. 71-1)<br>$LC_{50}$, 14 days: > 1000 mg/kg soil, Eisenia Fetida (Earthworm)<br>(OECD 207)<br>No significant impact on carbon mineralization or nitrogen transformation at up to 1.5 mg/kg soil, Soil micro-organisms<br>(Dutch guidelines form A, Commission for Registering Pesticides, modified appendix H.4.1, May 1983) |
| **Chronic aquatic toxicity** | |
| **NOEC** | 0.00001 < NOEC ≤ 0.0001 |
| **Degradability** | Non-rapidly degradable |
| **M factor (Chronic)** | 1000 |
| **Chronic toxicity - aquatic invertebrates** | NOEC, 28 days: 0.010 mg/l, Chironomus riparius (Sediment dwelling midge)<br>(OECD 2001, Proposal for a New Guideline No 219)<br>NOEC, 21 days: 0.00002 mg/l, Daphnia magna<br>(US EPA Pesticide Assessment Guidelines 72-4 b) |

## 12.2. Persistence and degradability

**Ecological information on ingredients.**

**4-phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether**

| | |
|---|---|
| **Name** | Pyriproxyfen, technical grade |
| **Stability (hydrolysis)** | pH4, pH7, pH9 - Water : stable @ 50°C<br>(OECD 111) |
| **Biodegradation** | Not readily biodegradable.<br>(OECD 301C - Modified MITI test I) |

## 12.3. Bioaccumulative potential

| | |
|---|---|
| **Name** | Pyriproxyfen, 100 g/l emulsifiable concentrate (Code ID : TN01) |
| **Partition coefficient** | Not determined. ( Pyriproxyfen : log Pow: = 5.37 @ 25°C (Shake-flask method) (OECD 107) ) |

**Ecological information on ingredients.**

# Pyriproxyfen 10 EC

**4-phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether**

| | |
|---|---|
| **Name** | Pyriproxyfen, technical grade |
| **Bioaccumulative potential** | BCF, Exposure 28 days: 501-660, whole fish, Lepomis macrochirus (Bluegill) depuration time, Half-life: ~ 1 day, Lepomis macrochirus (Bluegill) (US EPA 1982 Subdivision N - Chemistry : Environmental Fate. Series 165-4) |
| **Partition coefficient** | log Pow: 5.37 @ 25°C (Shake-flask method) (OECD 107) |

### 12.4. Mobility in soil

| | |
|---|---|
| **Name** | Pyriproxyfen, 100 g/l emulsifiable concentrate (Code ID : TN01) |
| **Surface tension** | 25.2 mN/m @ 40°C (EEC A.5) |

**Ecological information on ingredients.**

**4-phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether**

| | |
|---|---|
| **Name** | Pyriproxyfen, technical grade |
| **Mobility** | Low mobility. |
| **Adsorption/desorption coefficient** | Soil - Koc, Adsorption: 4 930- 34 200 ml/g @ 25°C<br>Soil - Koc, Desorption: 4 260 - 33 400 ml/g @ 25°C<br>(EPA Subdivision N, Section 163-1) |
| **Surface tension** | Not applicable. |

### 12.5. Results of PBT and vPvB assessment

**Ecological information on ingredients.**

**4-phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether**

| | |
|---|---|
| **Name** | Pyriproxyfen, technical grade |
| **Results of PBT and vPvB assessment** | Not required. (no chemical safety report required) |

### 12.6. Other adverse effects

**Ecological information on ingredients.**

**4-phenoxyphenyl (RS)-2-(2-pyridyloxy)propyl ether**

| | |
|---|---|
| **Name** | Pyriproxyfen, technical grade |
| **Other adverse effects** | No other known adverse effects on the environment. |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

| | |
|---|---|
| **Disposal methods** | According to local regulations. For further advice, contact manufacturer. |

## SECTION 14: Transport information

### 14.1. UN number

| | |
|---|---|
| **UN No. (ADR/RID)** | 3082 |
| **UN No. (IMDG)** | 3082 |
| **UN No. (ICAO)** | 3082 |

# Pyriproxyfen 10 EC

### 14.2. UN proper shipping name

| | |
|---|---|
| **Proper shipping name (ADR/RID)** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriproxyfen) |
| **Proper shipping name (IMDG)** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriproxyfen) |
| **Proper shipping name (ICAO)** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pyriproxyfen) |

### 14.3. Transport hazard class(es)

| | |
|---|---|
| **ADR/RID class** | 9 |
| **ADR/RID label** | 9 |
| **IMDG class** | 9 |
| **ICAO class/division** | 9 |

### 14.4. Packing group

| | |
|---|---|
| **ADR/RID packing group** | III |
| **IMDG packing group** | III |
| **ICAO packing group** | III |

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

### 14.6. Special precautions for user

No other special precaution required.

| | |
|---|---|
| **EmS** | F-A, S-F |

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

| | |
|---|---|
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not applicable. |

## SECTION 15: Regulatory information

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

| | |
|---|---|
| **EU legislation** | There is no specific regulation/legislation for this mixture. |

### 15.2. Chemical safety assessment

No chemical safety assessment is required for this mixture.

## SECTION 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 , ingredients , properties of the active substance(s) , close formulation(s) . |

# Pyriproxyfen 10 EC

**Classification abbreviations and acronyms**

Acute Tox. = Acute toxicity
Aquatic Acute = Hazardous to the aquatic environment (acute)
Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Asp. Tox. = Aspiration hazard
Carc. = Carcinogenicity
Eye Dam. = Serious eye damage
Eye Irrit. = Eye irritation
Skin Irrit. = Skin irritation
STOT SE = Specific target organ toxicity-single exposure

# Pyriproxyfen 10 EC

**Abbreviations and acronyms used in the safety data sheet**

ASTM : American Society for Testing Material
CAS: Chemical Abstracts Service.
CFR : Code of Federal Regulations
CLP : Classification, Labelling and Packaging
EC : European Community
EEC : European Economic Community
EPA : Environmental Protection Agency (USA)
EPPO : European and Mediterranean Plant Protection Organization
EU : European Union
GIFAP : International Group of National Associations of manufacturers of Agrochemical Products
GHS: Globally Harmonized System.
ID : identification
i.e. : shortening of the Latin expression id est, which is translated as “that is.”
OECD : Organisation for Economic Co-operation and Development
PBT: Persistent, Bioaccumulative and Toxic substance.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
Regl : Regulation
US EPA : United States Environmental Protection Agency
vPvB: Very Persistent and Very Bioaccumulative.
w/w : weight per weight
FIFRA : Federal Insecticide, Fungicide and Rodenticide Act of 1972
$LD_{50}$: Lethal Dose to 50% of a test population (Median Lethal Dose).
$LC_{50}$: Lethal Concentration to 50 % of a test population.
$EC_{50}$: 50% of maximal Effective Concentration.
NOEC: No Observed Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
ECb50 : 50% of maximal Effective Concentration on biomass.
NOECb : No Observed Effect Concentration on biomass.
EC50fd : 50% of maximal Effective Concentration on frond density.
NOECfd : No Observed Effect Concentration on frond density.
$DT_{50}$ : degradation time for 50% of a compound
log Pow : Octanol-water partition coefficient.
Koc : organic carbon adsorption coefficient
BCF: Bioconcentration Factor.
UN: United Nations.
No. : number
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IMDG: International Maritime Dangerous Goods.
ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
N.O.S. : Not Otherwise Specified
EmS : Emergency Response Procedures for Ships Carrying Dangerous Goods
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).
SDS : Safety Sata Sheet
CT50 : clearance time
ECr&b50 : 50% of maximal Effective Concentration on growth rate and biomass.
ECr50 : 50% of maximal Effective Concentration on growth rate.
NOECr : No Observed Effect Concentration on growth rate.

# Pyriproxyfen 10 EC

| | |
|---|---|
| | NOECr&b : No Observed Effect Concentration on growth rate and biomass.<br>Vol. = volume<br>CIPAC : Collaborative International Pesticides Analytical Council<br>USP : United States Pharmacopeia<br>SETAC: Society of Environmental Toxicology And Chemistry<br>OPPTS : Office of Prevention, Pesticides & Toxic Substances<br>a.s. : active substance<br>bw: bodyweight<br>MAFF : Ministry of Agriculture, Forestry and Fisheries (Japan)<br>ISO : International Organization for Standardization<br>v/v : volume per volume<br>w/v : weight per volume<br>EC : Emulsifiable concentrate |
| **Revision comments** | Sections were modified as follows : update of classification , update of classification (ingredients) .<br><br>NOTE: Lines within the margin indicate significant changes from the previous revision. |
| **Revision date** | 27/11/2017 |
| **Revision** | 4.20 |
| **Revision number of the previous version** | 4.10 |
| **Supersedes date** | 14/04/2015 |
| **SDS number** | 20334 |
| **Hazard statements in full** | H302 Harmful if swallowed.<br>H304 May be fatal if swallowed and enters airways.<br>H315 Causes skin irritation.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.<br>H335 May cause respiratory irritation.<br>H336 May cause drowsiness or dizziness.<br>H351 Suspected of causing cancer.<br>H400 Very toxic to aquatic life.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H411 Toxic to aquatic life with long lasting effects.<br>H412 Harmful to aquatic life with long lasting effects. |
| **Reference of the SDS** | AL10ECsTN01EU/420gb |

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.