


## Safety Data Sheet

### PYRILATE EC - Reg. No: L 7570 (Act No 36 of 1947)

Date of issue: 29/06/2004

Date of revision: 26/06/2019

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	PYRILATE EC
Other means of identification:	Pyriproxyfen 100 g/L EC
UN number:	1993
Recommended use:	Insecticide
Restrictions on use:	Agriculture
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 <a href="http://www.agritech.co.za">www.agritech.co.za</a>
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
Chemical Name:	2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine
2) Classification of the substance / mixture:	
Classification of the product:	N; F; Xi; R10; R20/21/22; R36/37/38; R41; R50/53 Full text of symbols and R-phrases: see section 15.
Label elements:	Hazard symbols: N – Dangerous for the environment Xi – Irritant F - Flammable    Signal word: Irritant
Health effects: eyes:	Moderate to high irritation.
Health effects: skin:	Moderate irritation.
Health effects: ingestion	Harmful if swallowed.

Health effects: inhalation	Harmful if inhaled.
Health effects: Other	No data available

### 3) COMPOSITION / INFORMATION ON INGREDIENTS:

Mixture:

Chemical name	% composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to 67/548/EEC
Pyriproxyfen	10	95737-68-1	429-800-1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	N F X;  R10 R20/21/22 R36/37/38 R41 R50/53

Full text of R- and S-phrases: see section 15.

### 4) First Aid Measures:

<b>Eye contact:</b>	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. <b>Seek medical assistance.</b> Use safety goggles.
<b>Skin contact:</b>	Strip off all contaminated clothing and thoroughly wash body with soap and water. Persons providing first aid must wear gloves to avoid self-contamination. Get medical attention if necessary.
<b>Ingestion:</b>	Do not induce vomiting. Drink large quantity of water. Maintain blood pressure and airway. Give oxygen if respiration is depressed. Call a physician and show this data sheet. Administration of gastric lavage or oxygen should be performed by qualified medical personnel.
<b>Inhalation:</b>	Remove patient to well ventilated area and loosen clothing around the neck. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention if necessary.
<b>Most important symptoms and effects, acute and delayed:</b>	None known
<b>Indication of immediate medical attention and special treatment needed: Advice to physician</b>	Symptomatic treatment and supportive therapy as indicated.

### 5) Fire-Fighting Measures:

<b>Suitable extinguishing media:</b>	Product is moderately flammable. For small fires carbon dioxide, dry chemical foam or standard foam. For large fires, use foam or water-fog; avoid use of water jet. Water can be used for cooling of unaffected stock, but avoid the accumulation of polluted run-off from the site. Contain fire control water for later disposal.
<b>Unsuitable extinguishing media:</b>	Product is moderately flammable. For small fires carbon dioxide, dry chemical foam or standard foam. For large fires, use foam or water-fog; avoid use of water jet. Water can be used for cooling of unaffected stock, but avoid the accumulation of polluted run-off from the site. Contain fire control water for later disposal.  Water jet, due to contamination risk.

<b>Special hazards arising from the substance or mixture:</b>	Generating poisonous, explosive and corrosive fumes (carbon monoxide and nitrous gases). Keep upwind
<b>Fire-fighting:</b>	Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Remove container/s from fire area if possible. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated (on small fires). Solvent vapours may travel to a source of ignition and create a flash-back vapour explosion hazard indoors, outdoors or in sewers. Do not extinguish fire until flow of product has been stopped. Cool containers/tanks with spray water. Avoid inhaling hazardous vapours by keeping upwind. Contain fire control water for later disposal.
<b>Protective clothing:</b>	Full protective clothing and self-contained breathing apparatus
<b>6) Accidental Release Measures:</b>	
<b>Personal precautions:</b>	Wear protective clothing according to operator safety during removal of spillage. Wear eye protection, chemically resistant gloves, boots and coveralls. For personal protection see Section 8.
<b>Environmental precautions:</b>	Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.
<b>Cleaning procedure:</b>	Remove all sources of flames and sparks. Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers. Heavily contaminated soil layers should be removed and disposed of in an approved way.
<b>Disposal:</b>	<p><b>Waste Disposal:</b></p> <p>In accordance with local and national regulations. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility.</p> <p><b>Container Disposal:</b> Refer to the product label for instructions.</p> <p>If containers cannot be recycled, they should be disposed of together with the waste chemical.</p> <p>Do not transport if this container is damaged or leaking. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.</p> <p><b>DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE</b>, perforate and flatten.</p> <p>Do not transport if this container is damaged or leaking.</p>
<b>7) Handling &amp; Storage:</b>	
<b>Handling:</b>	Harmful by inhalation and if swallowed. Avoid contact with eyes and skin, and inhalation of fumes. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Operators should change and wash their clothing daily. Remove clothing immediately if this product gets inside. Wash the skin thoroughly with a non-abrasive soap and put on clean clothing. Do not apply directly to areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

<b>Storage:</b>	Store in original container tightly closed and in an isolated, locked, dry, cool area, well-ventilated area away from foodstuffs, fertilisers, seeds, children, animals and unauthorised persons. Store away from open flames. Do not store next to or nearby foodstuffs and water supplies. Local regulations must be complied with.
<b>8) Exposure Control / Personal Protection:</b>	
<p>It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.</p> <p><b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b></p> <p><b>Clothing:</b></p> <p><b>Gloves:</b></p> <p><b>Eye protection:</b></p> <p><b>Respiratory protection:</b></p> <p><b>Emergency eye wash:</b></p>	<p>Consult supplier to confirm that the equipment is suitable.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.</p> <p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance</p> <p>The use of safety goggles or a face mask is recommended.</p> <p>Handle in well ventilated areas, generally natural ventilation is adequate</p> <p>Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.</p>
<b>9) Physical &amp; Chemical Properties:</b>	
<p><b>Form:</b></p> <p><b>Colour:</b></p> <p><b>Odour:</b></p> <p><b>Odour threshold:</b></p> <p><b>pH:</b></p> <p><b>Melting point / Freezing point</b></p> <p><b>Initial boiling point and boiling range</b></p> <p><b>Flash point:</b></p> <p><b>Evaporation rate:</b></p> <p><b>Flammability (solid, gas)</b></p> <p><b>Upper/ lower flammability or explosive limits:</b></p> <p><b>Vapour pressure:</b></p> <p><b>Vapour density:</b></p> <p><b>Relative density:</b></p> <p><b>Solubility(ies)</b></p> <p><b>Partition coefficient: n-octanol/water</b></p> <p><b>Auto-ignition temperature:</b></p> <p><b>Viscosity:</b></p>	<p>Liquid</p> <p>Yellowish / Brown</p> <p>Distinct Benzene odour</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>&lt;40°C</p> <p>No data available</p> <p>Flammable</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>No data available</p> <p>Emulsifiable in water</p> <p>No data available</p> <p>No data available</p> <p>No data available</p>
<b>10) Stability &amp; Reactivity:</b>	
<b>Reactivity:</b>	Not available.

<b>Chemical stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture
<b>Hazardous decomposition product(s):</b>	Normal combustion forms carbon dioxide, water vapour and toxic hydrogen cyanide. Incomplete combustion can produce carbon monoxide.
<b>Conditions to avoid:</b>	Protect from direct sunlight, open flames and sources of heat/ignition.
<b>Incompatible materials:</b>	Strong acids and oxidizing materials.

**11) Toxicological Information:**

Acute:	
Oral LD50	> 5700 mg/kg, rat
Dermal LD50	> 2000mg/kg, rabbit
Inhalation LC50 (4h):	>5.12 mg/L , rat
Skin irritation	: Moderate irritant.
Eye irritation	: Moderate to high irritant, rabbit
Sensitisation	: Animal test did not cause sensitization. May cause sensitisation during over exposure.
Other	: N/A

**12) Ecological Information:**

<b>Information below based on active ingredient:</b>
<b>Bees:</b> LC50 Contact > 100 µg/bee
<b>Birds:</b> Oral: Bobwhite quail, Mallard ducks > 2000mg/kg.
<b>Fish</b> : LC50 (96h) : Rainbow trout: > 0.325 mg / lt
<b>Algae</b> : EC50 (72 h) for <i>Selenastrum capricornutum</i> : 0.064 mg/ L
<b>Worms:</b> LC50 (14d) N/A
<b>Other aquatic species:</b> Toxic to <i>Daphnia magna</i> , LC50 (48 h) 0.4 mg/l
Persistence:
Considered a marine pollutant.

**13) Disposal Considerations:**

<b>Waste Disposal:</b> In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
<b>Container Disposal:</b> Refer to the product label for instructions. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE, perforate and flatten. Do not transport if this container is damaged or leaking.

**14) Transportation Information:**

UN Number: 1993

**Road transport ADR/RID**

Class: 9

Packaging group: III Labelling no: 9

Shipping name: FLAMMABLE LIQUID, N.O.S. (Pyriproxyfen)

**Air transport: ICAO / IATA**

Class: 9

Packaging group: III Labelling no: 9

Shipping name: FLAMMABLE LIQUID, N.O.S. (Pyriproxyfen)

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): NA

Special precautions: Flammable

Environmental hazard: Yes

**Maritime transport: IMDG**

Class: 9

Packaging group: III Labelling no: 9

Shipping name: FLAMMABLE LIQUID, N.O.S. (Pyriproxyfen)

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): NA

Special precautions: Flammable

Environmental hazard: Yes

**15) Regulatory Information:**

**Symbols:** Xi – Irritant

N - Dangerous for the environment

F: Flammable

**Risk – Phrase:**

R10 - Flammable

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R41 - Risk of serious damage to eyes

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety – Phrase:**

S1/2 -Keep locked up and out of reach of children.

S13 -Keep away from food, drink and animal feeding stuffs.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S60 -This material and its container must be disposed of as hazardous waste.

S61 -Avoid release to the environment. Refer to SDS.

**Hazard Statements**

H400 - Very toxic to aquatic life.

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

**16. Other Information**

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS. The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.