





## Safety Data Sheet

### ACATHRIN EC - Reg. No: L 7629 (Act No 36 of 1947)

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	ACATHRIN EC
Other means of identification:	Fenprothrin 200 g/L EC
UN number:	2903
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:	Cyano-(3-phenoxyphenyl)-methyl- 2,2,3,3-tetramethylcyclopropanecarboxylate
2) Classification of the substance / mixture:	
Classification of the product:	R21 R25 R26 R50/53  N, T+  Full text of symbols and R-phrases: see section 15.
Label elements:	<div>    </div> <div> <p>Danger</p> <p>Xn – Harmful</p> <p>N – Dangerous for the Environment</p> </div> <div>  </div> <div> <p>F – Highly Flammable</p> </div>
Health effects: eyes:	May cause moderate to high irritation.

<b>Health effects: skin:</b>	May cause moderate irritation.
<b>Health effects: ingestion</b>	May cause irritation and may be harmful.
<b>Health effects: inhalation</b>	May cause irritation and may be harmful.
<b>Health effects: Other</b>	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
Fenpropathrin	20%	39515-41-8	254-485-0	Acute Tox. 2: H330: Fatal if inhaled Acute Tox. 3: H301: Toxic if swallowed. Acute Tox. 4: H312: Harmful in contact with skin. Aquatic Acute 1: H400: Very toxic to aquatic life. Aquatic Chronic 1: H 410: Very toxic to aquatic life with longlasting effects.	T+, N, Xn R21, 25, 26, 50/53  S1/2, S28 S36/37 S38 S45 S60 S61

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. Seek medical assistance.
<b>Skin contact:</b>	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Persons providing first aid must wear gloves to avoid self-contamination. Seek medical assistance if irritation persists.
<b>Ingestion:</b>	Drink a large quantity of milk, egg whites or gelatine solution. Seek medical assistance immediately. Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre.
<b>Inhalation:</b>	Remove patient to fresh air and loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
<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>	Treat symptomatically and supportively. Remove by gastric lavage and catharsis. Diazepam may be helpful to CNS.

### 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>	Avoid the use of a solid water stream as this may cause spreading.
<b>Special hazards arising from the substance or mixture:</b>	Toxic fumes of chlorine and toxic oxides of nitrogen and carbon are produced when the product decomposes on heating.

	Normal combustion forms carbon dioxide, water vapour and toxic hydrogen cyanide. Incomplete combustion can produce carbon monoxide
<b>Fire-fighting:</b>	<p>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.</p> <p>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.</p> <p>Generating poisonous, explosive and corrosive fumes. Keep upwind.</p> <p>Fire may produce irritating or poisonous vapours, mists or other products of combustion.</p>
<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. For personal protection see section 8.
<b>Environmental precautions:</b>	Do not contaminate waterways, drains and groundwater. Heavily contaminated soil layers should be removed and disposed of in an approved way. 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.
<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. Product waste should be burned in a high temperature incinerator (&gt; 1000 °C) with effluent gas scrubbing. Never pour untreated waste or surplus products into public sewers or where there is any danger of running-off or seepage into water systems. Comply with local legislation applying to waste disposal.</p> <p><b>Container Disposal:</b> Refer to the product label for instructions.</p> <p>Emptied containers retain vapour and product residues, therefore observe all labelled safeguards until the container is destroyed. Combustible containers should be disposed of in pesticide incinerators. Non-combustible containers must first be triple-rinsed with water, then punctured and transported to a scrap metal facility for recycling or</p>

	disposal. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. <b>DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.</b> Do not transport if this container is damaged or leaking.
<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. The 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. 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 with side shields is recommended.</p> <p>An approved respirator suitable for protection from dusts and mists of pesticides is required. The limitations of the respirator use as specified by the approving agency and the manufacturer must be observed.</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>	
<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Odour:</b>	Distinct Benzene odour
<b>Odour threshold:</b>	No data available
<b>pH:</b>	No data available
<b>Melting point / Freezing point</b>	No data available

<b>Initial boiling point and boiling range</b> <b>Flash point:</b> <b>Evaporation rate:</b> <b>Flammability (solid, gas)</b> <b>Upper/ lower flammability or explosive limits:</b> <b>Vapour pressure:</b> <b>Vapour density:</b> <b>Relative density:</b> <b>Solubility(ies)</b> <b>Partition coefficient: n-octanol/water</b> <b>Auto-ignition temperature:</b> <b>Viscosity:</b>	No data available Moderately flammable No data available No data available No data available No data available No data available No data available Miscible in water No data available No data available No data available
<b>10) Stability &amp; Reactivity:</b>	
<b>Reactivity:</b>  <b>Chemical stability:</b>  <b>Hazardous decomposition product(s):</b>  <b>Conditions to avoid:</b> <b>Incompatible materials:</b>	No data available.  When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Incompatible with alkaline substances and alcohols. A compatibility test is required before using with other products. Do not physically mix concentrate directly with other pesticide concentrates; always dilute first. Alkaline substances may reduce the efficacy of the product.  Toxic fumes of chlorine and toxic oxides of nitrogen and carbon are produced when the product decomposes on heating. Normal combustion forms carbon dioxide, water vapour and toxic hydrogen cyanide. Incomplete combustion can produce carbon monoxide  Heat, flames, sparks and other sources of ignition.  No data available
<b>11) Toxicological Information:</b>	
Acute: Oral LD50 > 65mg/kg, rat Dermal LD50 >2000mg/kg, rabbit Inhalation LC50 (4h): >0.096 mg/L , rat Skin irritation : Moderate irritant, rabbit Eye irritation : Moderate to high irritant, rabbit Sensitisation : Animal test did not cause sensitization Other : No data available.	
<b>12) Ecological Information:</b>	

**Information below based on active ingredient:**

**Bees:** No data available.

**Birds:** LD50 Mallard ducks > 1000 mg/kg.

**Fish** : LC50 (48h) Highly toxic to fish. Bluegill sunfish LC<sub>50</sub>. (48 hr) 1.95 µg/l. Rainbow trout: LC<sub>50</sub>. (96 hr): 0.0036 mg/L

**Algae** : EC50 (120 h) Green algae (*Selenastrum capricornutum*) > 2 mg/L

**Worms:** No data available.

**Other aquatic species:** Toxic to *Daphnia magna*, LC50 (48 h) 0.53 µg/l.

**13) Disposal Considerations:**

**Waste Disposal:** 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. Product waste should be burned in a high temperature incinerator (> 1000 °C) with effluent gas scrubbing. Never pour untreated waste or surplus products into public sewers or where there is any danger of running-off or seepage into water systems. Comply with local legislation applying to waste disposal.

**Container Disposal:** Refer to the product label for instructions.

Emptied containers retain vapour and product residues, therefore observe all labelled safeguards until the container is destroyed. Combustible containers should be disposed of in pesticide incinerators. Non-combustible containers must first be triple-rinsed with water, then punctured and transported to a scrap metal facility for recycling or disposal. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.

**DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.**

Do not transport if this container is damaged or leaking.

**14) Transportation Information:**

UN Number: 2903

**Road transport ADR/RID**

Class: 6.1

Packing group: II

UN proper shipping name: Pesticides, liquid, toxic, flammable, flashpoint not less than 23 °C N.O.S (fenpropathrin)

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

precautions: Flammable

Environmental hazard: Yes

**Air transport: ICAO / IATA**

UN proper shipping name: Pesticides, liquid, toxic, flammable, flashpoint not less than 23 °C Class: 6.1.

Packing group: II

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**

UN proper shipping name: Pesticides, liquid, toxic, flammable, flashpoint not less than 23 °C Class: 6.1.

Packing group: II

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:** Xn - Harmful

N - Dangerous for the environment

T - Toxic

F - Flammable

**Risk – Phrase:**

R10 - Flammable

R21 - Harmful in contact with skin.

R25 - Toxic if swallowed.

R26 - Very toxic by inhalation

R38 -Irritating to skin

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.

S28 - After contact with skin, wash immediately with plenty of soap and water.

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

S38 - In case of insufficient respiration, wear suitable respiratory equipment.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S46 - If swallowed, seek medical advice and show this label or container.

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

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

**Hazard Statements**

No data available.

**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.

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