


## Safety Data Sheet

### PYRAX - Reg. No: L 10376 (Act No 36 of 1947)

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	PYRAX
Other means of identification:	Pyraclostrobin 250 EC
Chemical Name:	Pyraclostrobin: methyl N-{2-[1-(4-chlorophenyl)pyrazol-3-ylloxymethyl]phenyl}(N-methoxy)carbamate
Recommended use:	Fungicide
Restrictions on use:	Agriculture
UN No:	2902
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 TYGERBERG: 021 931 6129 RED CROSS: 021 689 5227 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
2) HAZARDS IDENTIFICATION	
Classification of the substance/mixture:	Acute Toxicity (Oral) Category 4 Acute Toxicity (Dermal) Category 5 Acute Toxicity (Inhalation) Category 3 Skin Irritation Category 2 Eye Irritation Category 2 Aspiration Toxicity Category 1 Aquatic Acute Category 1 Aquatic Chronic Category 1
Label Elements: Globally Harmonized System, EU (GHS):	<p><b>Pictograms:</b></p>  <p>Single Word: Danger</p> <p><b>Hazard Statements:</b>  <b>H302:</b> Harmful if swallowed.  <b>H304:</b> May be fatal if swallowed and enters airways.  <b>H315:</b> Causes skin irritation.  <b>H319:</b> Causes serious eye irritation.  <b>H331:</b> Toxic if inhaled.  <b>H400:</b> Very toxic to aquatic life.  <b>H410:</b> Very toxic to aquatic life with long lasting effects.</p> <p><b>Precautionary Statements:</b>  <b>P201:</b> Obtain special instructions before use.  <b>P202:</b> Do not handle until all safety precautions have been read and understood.  <b>P260:</b> Do not breathe fumes/vapours/spray.  <b>P262:</b> Do not get in eyes, on skin, or on clothing.  <b>P270:</b> Do not eat, drink or smoke when using the product.  <b>P272:</b> Contaminated work clothing should not be allowed out of the workplace.</p>

According to Directive 67/548/EEC No. 1272/2008 [CLP]:

**P273:** Avoid release to the environment.  
**P280:** Wear protective gloves, protective clothing, eye protection.  
**P321:** Specific treatment (See First aid measures on this label)  
**P362+P364:** Take off contaminated clothing and wash it before reuse.  
**P405:** Store locked up.

**Hazard Symbol(s):**

T - Toxic  
Xn – Harmful  
Xi - Irritant  
N – Dangerous for the environment

**R-phrases(s):**

**R22:** Harmful if swallowed.  
**R26:** Very toxic by inhalation.  
**R23:** Toxic by inhalation.  
**R38:** Irritating to skin.  
**R50/53:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
**R65:** Harmful: may cause lung damage if swallowed.

**S-phrases(s):**

**S1/2:** Keep locked up and out of the reach of children.  
**S23:** Do not breathe fumes/vapour.  
**S24:** Avoid contact with skin.  
**S45:** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
**S60:** This container and its contents must be disposed of as hazardous waste.  
**S61:** Avoid release to the environment. Refer to special instructions/Safety datasheets  
**S62:** If swallowed, do not induce vomiting: seek medical advice immediately and show this document.  
**S63:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

**3) COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Substances:**

Not applicable

**3.2 Mixtures:**


Chemical name	Composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)
Pyraclostrobin	250 g/L	175013-18-0	-	Skin Irrit.2 (H315) Acute tox Cat 3 (H331) Aquatic Acute Cat 1 (H400) Aquatic Chronic 1 (H410)
Acetophenone	< 10%	98-86-2	202-708-7	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)
Solvent Naptha	< 60%	64742-94-5	265-198-5	Asp. Tox. 1 (H304)

**4) FIRST AID MEASURES**

<b>Eye contact:</b>	Immediately flush eyes with plenty of water. Remove contact lenses, if worn, and flush eyes with water for at least 15 minutes holding eyelids open. Seek medical assistance if irritation persists.
<b>Skin contact:</b>	Remove contaminated clothing and thoroughly wash body with soap and water. Seek medical attention if necessary. Wash contaminated clothing before re-use.
<b>Ingestion:</b>	Immediately rinse mouth and drink 200 – 300ml of water. If swallowed, do not induce vomiting: seek medical advice immediately and show this document. Seek medical advice.
<b>Inhalation:</b>	Remove victim to well ventilated area and loosen clothing around the neck. Keep victim calm. <b>Seek medical attention immediately.</b>
<b>Most important symptoms and effects, acute and delayed:</b>	Symptoms not known.
<b>Indication of immediate medical attention and special treatment needed: Advice to physician</b>	Symptomatic treatment, no specific antidote known.
<b>5) FIRE-FIGHTING MEASURES</b>	
<b>Extinguishing Media:</b>	Water spray, foam, carbon dioxide (CO <sub>2</sub> ), dry powder.
<b>Unsuitable Extinguishing Media:</b>	Do not use high volume water jet, due to contamination risk.
<b>Specific Hazards arising from the substance/mixture:</b>	Fire may produce irritating or poisonous vapours, mists or other products of combustion. Do not breathe fumes.
<b>Fire Fighting:</b>	In case of a fire or explosion, do not breathe fumes. Remove spectators from surrounding area. Use a recommended extinguishing agent. Dike extinguishing media for later disposal, do not allow to reach sewage or water systems. Dispose of fire debris and contaminated extinguishing water according to regulations. Water can be used to cool unaffected containers but must be contained for later disposal. Avoid pollution of waterways.
<b>Protective clothing:</b>	Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus
<b>6) ACCIDENTAL RELEASE MEASURES:</b>	
<b>Personal precautions, protective equipment and emergency procedures:</b>	Do not breathe vapor or spray. Avoid contact with skin, eyes and clothing. Wear personal protective clothing according to operator safety during removal of spillage.
<b>Environmental precautions:</b>	Do not contaminate waterways, drains and groundwater. Do not discharge into soil or subsoil.
<b>Methods and material for containment and cleaning up:</b>	Do not eat, drink or smoke during the clean-up process. Clear area of unprotected personnel. Wear protective gear as mentioned in section 8 below. Contain the spill and stop leak provided it is safe to do so. Soak up minor spills with suitable absorbent material such as sand, sawdust, vermiculite, diatomaceous earth, etc. For large spills, dike spill area and pump off excess product. Collect waste in a suitable container which can be labelled and sealed for disposal according to local regulations. Clean contaminated areas thoroughly with water containing detergent. Collect washings to avoid any contamination of surface and ground water, water supplies and drains. Deal with spillages immediately. If contamination of waterways or drains is unavoidable, warn the local authorities immediately. Used absorbent material should be stored in labelled, sealable containers until these can be disposed of according to local regulations.
<b>7) HANDLING &amp; STORAGE</b>	

<p><b>Precautions for Safe Handling:</b></p>	<p>Do not breathe in fumes or spray. Ensure thorough ventilation of work and storage areas. Avoid contact with skin, eyes and clothes. Do not eat, drink, smoke or apply cosmetics while using. Wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, or using the toilet. Vapours may form an ignitable mixture with air. Sources of ignition should be kept a safe distance away and fire extinguishers should be kept within reach.</p>
<p><b>Conditions for Safe Storage, including any incompatibilities:</b></p>	<p>Store out of direct sunlight, away from sources of ignition and away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons. Do not contaminate water, food or feed by storage or disposal.</p>
<b>8) EXPOSURE CONTROL / PERSONAL PROTECTION</b>	
<p><b>Appropriate Engineering Controls:</b></p>	<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>Control Parameters: Occupational exposure limits:</b></p>	<p>None known.</p>
<p><b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b></p>	
<p><b>Clothing:</b></p>	<p>Employee must wear appropriate protective (impervious) clothing depending on activity and possible exposure risk e.g. chemical resistant apron, boots and closed body suit.</p>
<p><b>Gloves:</b></p>	<p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance.</p>
<p><b>Eye protection:</b></p>	<p>The use of safety goggles with side-shields is recommended.</p>
<p><b>Respiratory protection:</b></p>	<p>Wear suitable respiratory equipment for contact with higher concentrations: combination filter.</p>
<p><b>Emergency eye wash:</b></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>Appearance:</b>	Clear to brown liquid
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	No data available
<b>pH:</b>	5 - 7
<b>Melting point / Freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas)</b>	Product is combustible
<b>Upper/ lower flammability or explosive limits:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	0.968 g/ml
<b>Solubility(ies)</b>	Emulsifies in water
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>10) STABILITY &amp; REACTIVITY</b>	
<p><b>Reactivity:</b></p>	<p>Stable under normal storage conditions.</p>
<p><b>Chemical Stability:</b></p>	<p>When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.</p>

<b>Possibility of hazardous reactions:</b>	No hazardous reactions if stored and handled as indicated.
<b>Conditions to avoid:</b>	Protect from direct sunlight, heat and flames.
<b>Incompatible materials:</b>	Strong bases, strong acids, strong oxidising agents.
<b>Hazardous decomposition product(s):</b>	Fires can release vapours that are irritating or toxic.
<b>11) TOXICOLOGICAL INFORMATION</b>	
<b>Acute Toxicity:</b>	
<b>Oral:</b>	LD50 > 4 000 mg/kg, rat.
<b>Dermal:</b>	LD50 > 7 000 mg/kg, rat.
<b>Inhalation:</b>	LC50 4h > 0.58 mg/L, rat (Pyraclostrobin)
<b>Skin Corrosion/Irritation:</b>	Irritating, rabbit (Pyraclostrobin).
<b>Serious Eye Damage/Irritation:</b>	Not an irritant, rabbit (Pyraclostrobin).
<b>Respiratory or Skin Sensitization:</b>	Not a sensitizer.
<b>Germ Cell Mutagenicity:</b>	Pyraclostrobin, as the technical material has no mutagenic effects.
<b>Carcinogenicity:</b>	Pyraclostrobin, as the technical material has no carcinogenic potential.
<b>Reproductive Toxicity:</b>	Pyraclostrobin, as the technical material has no teratogenic potential with no adverse effects on reproduction.
<b>STOT-SE:</b>	No data available.
<b>STOT-RE:</b>	No data available.
<b>Aspiration Hazard:</b>	May be fatal if swallowed and enters airways.
<b>12) ECOLOGICAL INFORMATION</b>	
<b>Ecotoxicity:</b>	
<b>Birds:</b>	Oral LD50 quail > 2000 mg/kg bobwhite quail.
<b>Fish:</b>	LC50 (96h) rainbow trout > 0.006 mg/L.
<b>Daphnia:</b>	EC50 (48h) > 0.016 mg/L.
<b>Algae:</b>	E <sub>1</sub> C50 (72h) <i>Pseudokirchneriella subcapitata</i> >0.843 mg/L, E <sub>b</sub> C <sub>50</sub> (72h) >0.152 mg/L.
<b>Worms:</b>	LC <sub>50</sub> 567 mg/kg soil.
<b>Bees:</b>	Oral LD50 >73.1 µg/bee. LD <sub>50</sub> contact > 100 µg/bee.
<b>Persistence and Degradability:</b>	In soil/environment DT <sub>50</sub> (lab, aerobic, 20 °C) 12–101 d (5 soils); (field) 8–37 d (6 locations).
<b>Bioaccumulative Potential:</b>	Not available.
<b>Mobility in Soil:</b>	K <sub>oc</sub> 6000–16 000 ml/g.
<b>13) DISPOSAL CONSIDERATIONS</b>	
<b>Waste Disposal:</b>	Waste should not be re-used. Do not contaminate water, food or feed by disposal. Open dumping or burning of this pesticide is prohibited. Wastes resulting from the use of this product should be disposed of by an approved chemical waste disposal/incineration facility. Do not dispose of undiluted chemical on site.
<b>Container Disposal:</b>	Refer to the product label for instructions. Triple rinse empty containers before disposal. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Empty containers should not be burnt, puncture and flatten containers and dispose of as recommended for waste product above. <b>DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.</b>
<b>14) TRANSPORTATION INFORMATION</b>	
<b>Road Transport ADR / IRD:</b>	UN NUMBER: 2902 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Napthalene solvent, 250g/L Pyraclostrobin) Transport Hazard Class: 6.1 Packaging group: III Labelling no: 6.1, EHSM Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
<b>Maritime Transport IMDG / IMO:</b>	UN NUMBER: 2902 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Napthalene solvent, 250g/L Pyraclostrobin) Transport Hazard Class: 6.1 Packaging group: III Labelling no: 6.1, EHSM Environmental Hazards: Marine Pollutant

	<p>Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.</p> 
<b>Air Transport ICAO / IATA:</b>	<p>UN NUMBER: 2902  UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Napthalene solvent, 250g/L Pyraclostrobin)  Transport Hazard Class: 6.1  Packaging group: III  Labelling no: 6.1, EHSM  Environmental Hazards: Not applicable  Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.</p>
<b>Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code):</b>	No transport in bulk according to the IBC Code.
<b>15) REGULATORY INFORMATION</b>	
<b>Safety, health and environmental regulations/legislation specific for the substance/mixture:</b>	For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)
<b>Chemical Safety Assessment:</b>	Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
<b>16) OTHER INFORMATION</b>	
<p>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.</p> <p>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.</p> <p>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.</p> <p>MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSES OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANT ABILITY, 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.</p> <p>Date of issue: 05/05/2015  Date of revision: 31/03/2020</p> <p><b>Abbreviations and acronyms:</b></p> <ol style="list-style-type: none"> <li>1. CAS number: Chemical Abstracts Service number.</li> <li>2. CLP: Classification, Labelling, Packaging.</li> <li>3. LD<sub>50</sub>: Lethal Dose for 50% of the test population.</li> <li>4. LC<sub>50</sub>: Lethal Concentration for 50% of the test population.</li> <li>5. DT<sub>50</sub>: Half-life.</li> <li>6. GHS: Globally Harmonised System (of Classification and Labelling of Chemicals).</li> </ol> <p><b>Literature References:</b></p> <ul style="list-style-type: none"> <li>• GHS: <a href="http://www.ccohs.ca/oshanswers/chemicals/ghs.html">www.ccohs.ca/oshanswers/chemicals/ghs.html</a></li> <li>• ECHA: <a href="https://echa.europa.eu/search-chemicals">https://echa.europa.eu/search-chemicals</a></li> </ul>	