

## Safety Data Sheet

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

Date of issue: 05/05/2015

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.					
Product name:		PYRAX			
Other means of identification Recommended use:		Pyraclostrobin 250 EC Fungicide			
Restrictions on use:		Agriculture			
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			
Chemical Name:		Pyraclostrobin: methyl <i>N</i> -{2-[1-(4-chlorophenyl)pyrazol-3-ylloxymethyl]phenyl}( <i>N</i> -methoxy)carbamate			
2) Classification of the substance / mixture:					
Classification of the product is based on the co-formulants listed in section 3.		T, Xi, Xn, N; R10, R20, R23, R38, R50-53, R62 Full text of R-phrases: see section 15.			
Label elements:		Hazard symbols: Xn – Harmful N – Dangerous for the environment    Single Word: Danger			
Health effects: eyes:		May cause irritation.			
Health effects: skin:		May cause irritation.			
Health effects: ingestion		Harmful if swallowed. May cause lung damage.			
Health effects: inhalation		Harmful by inhalation.			
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
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)	T, Xi, N; R23, R38, R50-53; S1/2, S45, S60, S61, S63

Acetophenone	< 10%	98-86-2	202-708-7	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	Xi, Xn, R22, R26
Solvent Naptha	< 60%	64742-94-5	265-198-5	Asp. Tox. 1 (H304)	Xn, R65; S2, S23, S24, S62

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

#### 4) First Aid Measures:

<p><b>Eye contact:</b></p> <p><b>Skin contact:</b></p> <p><b>Ingestion:</b></p> <p><b>Inhalation:</b></p> <p><b>Most important symptoms and effects, acute and delayed:</b></p> <p><b>Indication of immediate medical attention and special treatment needed: Advice to physician</b></p>	<p>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.</p> <p>Remove contaminated clothing and thoroughly wash body with soap and water. Seek medical attention if necessary. Wash contaminated clothing before re-use.</p> <p>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.</p> <p>Remove victim to well ventilated area and loosen clothing around the neck. Keep victim calm. <b>Seek medical attention immediately.</b></p> <p>See section 2. Other symptoms not known.</p> <p>Symptomatic treatment, no specific antidote known.</p>
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#### 5) Fire-Fighting Measures:

<p><b>Suitable extinguishing media:</b></p> <p><b>Fire fighting:</b></p> <p><b>Protective clothing:</b></p>	<p>Water spray, foam, carbon dioxide (CO<sub>2</sub>), dry powder.</p> <p>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.</p> <p>Fire may produce irritating or poisonous vapours, mists or other products of combustion. Do not breathe fumes.</p> <p>Fire-fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus</p>
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#### 6) Accidental Release Measures:

<p><b>Personal precautions:</b></p> <p><b>Environmental precautions:</b></p> <p><b>Cleaning procedure:</b></p>	<p>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.</p> <p>Do not contaminate waterways, drains and groundwater. Do not discharge into soil or subsoil.</p> <p>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.</p>
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<b>Disposal:</b>	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>	
<b>Handling:</b>	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.
<b>Storage:</b>	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.
<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> <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>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>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>Wear suitable respiratory equipment for contact with higher concentrations: combination filter.</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, emulsion concentrate</p> <p>Clear to brown</p> <p>Characteristic</p> <p>No data available</p> <p>5 - 7</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>Product is combustible</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>0.968 g/ml</p> <p>Emulsifies 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>	Stable under normal storage conditions.
<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>	Fires can release vapours that are irritating or toxic.
<b>Conditions to avoid:</b>	Protect from direct sunlight, heat and flames.
<b>Incompatible materials:</b>	Strong bases, strong acids, strong oxidising agents.
<b>11) Toxicological Information:</b>	
<p>Acute:</p> <p>Oral LD50 &gt; 4 000 mg/kg, rat.  Dermal LD50 &gt; 7 000 mg/kg, rat.  Inhalation LC50 4h &gt; 0.58 mg/L, rat (Pyraclostrobin)  Skin irritation : Irritating, rabbit (Pyraclostrobin).  Eye irritation : Not an irritant, rabbit (Pyraclostrobin).</p> <p>Pyraclostrobin, as the technical material has no mutagenic, teratogenic or carcinogenic potential with no adverse effects on reproduction.</p>	
<b>12) Ecological Information:</b>	
<p>Based on Pyraclostrobin TC</p> <p>Bees : Oral LD50 &gt;73.1 µg/bee.  LD<sub>50</sub> contact &gt; 100 µg/bee.</p> <p>Birds : Oral LD50 quail &gt; 2000 mg/kg bobwhite quail.</p> <p>Fish : LC50 (96h) rainbow trout &gt; 0.006 mg/L.</p> <p>Daphnia : EC50 (48h) &gt; 0.016 mg/L.</p> <p>Algae : E<sub>r</sub>C<sub>50</sub> (72h) <i>Pseudokirchneriella subcapitata</i> &gt;0.843 mg/L, E<sub>b</sub>C<sub>50</sub> (72h) &gt;0.152 mg/L.</p> <p>Worms : LC<sub>50</sub> 567 mg/kg soil.</p> <p>Persistence, degradability and motility:  In soil/environment DT<sub>50</sub> (lab, aerobic, 20 °C) 12–101 d (5 soils); (field) 8–37 d (6 locations). <math>K_{oc}</math> 6000–16 000 ml/g.</p> <p>Biodegradation: Not available.  Bioaccumulative potential: Not available.</p> <p>Additional information: Do not discharge into the environment without control.</p>	
<b>13) Disposal Considerations:</b>	
<p><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.</p> <p><b>Container Disposal:</b> Refer to the product label for instructions.</p> <p>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.</p> <p>DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.</p>	
<b>14) Transportation Information:</b>	
<p>UN Number: 2902</p> <p>Road transport ADR/RID  Class: 6.1  Packing group: III  Hazard label: 6.1, EHSM  UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Napthalene solvent, 250g/L Pyraclostrobin)</p> <p>Maritime transport IMDG/IMO  Class: 6.1  Packing group: III  Hazard label: 6.1, EHSM  UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Napthalene solvent, 250g/L Pyraclostrobin)  Marine pollutant</p> <p>Air transport IATA/ICAO  Class: 6.1  Packing group: III  Hazard label: 6.1, EHSM  UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (contains Napthalene solvent, 250g/L Pyraclostrobin)</p>	



#### 15) Regulatory Information:

**Symbols:** T, N, Xn, Xi

**Risk – Phrase:**

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.

R22 Harmful if swallowed.

R26 Very toxic by inhalation.

R65 Harmful: may cause lung damage if swallowed.

**Safety – Phrase:**

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

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

S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

S2: Keep out of the reach of children.

S23 Do not breathe fumes/vapour.

S24 Avoid contact with skin.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this document.

**Hazard Statements**

H315 Causes skin irritation.

H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H304 May be fatal if swallowed and enters airways.

Date of revision: 2015/05/05

#### 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.

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