

Safety Data Sheet

PRONTO 250 EC - Reg. No: L 7602 (Act No 36 of 1947)

Date of issue: 04/10/2010

Date revised: 28/04/2016

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	PRONTO 250 EC
Other means of identification:	Difenoconazole 250 g/L EC
Recommended use:	Fungicide
Restrictions on use:	Agriculture
UN No:	3082
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
Chemical Name:	<i>cis,trans</i> -3-chloro-4-[4-methyl-2-(1 <i>H</i> -1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-2-yl]phenyl 4-chlorophenyl ether (IUPAC)
2) Hazards Identification:	
Product Classification:	N; Xi; F; R10; R36/38; R37/38; R41; R43; R50/53 See full text phrases; see section 15
Label Elements:	Hazard symbols: N – Dangerous for the environment Xi – Irritant F - Flammable  Signal words: Irritant
Health effects: eyes:	May cause severe irritation and may cause damage.
Health effects: skin:	May cause irritation, may cause sensitization and may be harmful.
Health effects: ingestion	May cause irritation and may be harmful.
Health effects: inhalation	May cause irritation and may be harmful.
3) Composition Details:	
COMPOSITION	Difenoconazole
	250 g/L
4) First Aid Measures:	

<p>Inhalation:</p> <p>Skin contact:</p> <p>Eye contact:</p> <p>Ingestion</p> <p>Advice to physician:</p>	<p>Remove patient to fresh air. 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.</p> <p>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 selfcontamination. Seek medical assistance if irritation occurs.</p> <p>Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance immediately.</p> <p>Repeatedly administer medicinal charcoal in a large quantity of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately.</p> <p>No specific antidote known. Treat symptomatically. Repeatedly administer medicinal charcoal in a large quantity of water.</p>
<p>5) Fire-Fighting Measures:</p>	
<p>Flash point:</p>	<p>> 60 °C</p>
<p>Extinguishing Media:</p> <p>Fire Fighting:</p>	<p>Dry chemical, foam or standard foam. A fine water spray can be used for larger fires or for cooling unaffected stock. Do not use high volume water jet, due to contamination risk. Avoid accumulation of polluted run-off from the site. Contain fire control water for later disposal.</p> <p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. For small fire: If the area is heavily exposed to fire and if conditions permit, let the fire burn itself out since water may increase the area contaminated. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.</p> <p>Generating poisonous fumes containing: carbon monoxide, nitrogen oxides and hydrochloric acid. Keep cool as heated vapours may explode.</p> <p>UNUSUAL FIRE OR EXPLOSION HAZARDS: Combustion products are toxic and/or irritant.</p>
<p>Protective clothing:</p>	<p>Full protective clothing and self-contained breathing apparatus</p>
<p>6) Accidental Release Measures:</p>	

<p>Personal precautions:</p> <p>Environmental precautions:</p> <p>Occupational spill:</p>	<p>Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.</p> <p>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. Considered as Marine Pollutant.</p> <p>Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with an inert material such as sand, soil, diatomaceous earth etc., remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in specially marked waste containers. Wash area with water and detergent and absorb with further inert material. Heavily contaminated soil layers should be removed and disposed of in an approved way. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by incineration or disposed of at a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical.</p>
<p>7) Handling & Storage:</p>	
<p>Handling:</p> <p>Storage:</p>	<p>Avoid skin and eye contact and inhalation of spray mist. Avoid inhalation of fog and vapours. Keep away from heat and sources of ignition. Take precautionary measures against static discharges (transfer operations: check grounding). May form explosive vapour-air mixtures. Spills may be slippery and should be cleaned up immediately. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.</p> <p>Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons.</p>
<p>8) Exposure Control / Personal Protection:</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>Occupational Exposure Limits:</p> <p>Engineering Controls:</p> <p>PERSONAL PROTECTIVE EQUIPMENT:</p> <p>Clothing:</p> <p>Gloves:</p> <p>Eye protection:</p>	<p>Difenoconazole 8 mg/m³ 8 h TWA</p> <p>Containment and/or segregation is the most reliable technical protection measure if exposure cannot be limited. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Respiratory protection: Respirator with filter for organic vapour.</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>

Emergency eye wash:	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.
9) Physical & Chemical Properties:	
Form:	Liquid
Colour:	Yellow to brown
Odour:	Mild characteristic odour
Solubility:	Emulsifies in water
pH:	4 - 8
Odour threshold: Melting point / Freezing point Boiling point: Flash point: Evaporation rate: Flammability (solid, gas) Upper/ lower flammability or explosive limits: Vapour pressure: Vapour density: Relative density: Partition coefficient: n-octanol/water Auto-ignition temperature: Viscosity:	Not available 82 – 83°C (Difenoconazole) 100.8°C/0.00003 (Difenoconazole) >60°C Not available Not available Not available 3.3 x 10 ⁻⁵ mPa @ 25°C (Difenoconazole) Not available Not available Log K _{ow} 4.4 (Difenoconazole) Not available Not available
10) Stability & Reactivity:	
Stability:	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Conditions to avoid:	Avoid very high or low temperatures. Protect from light, humidity and frost.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition product(s):	Heating can release vapours which can be ignited. Combustion products are toxic and/or irritant.
11) Toxicological Information:	
<p>Oral : LD₅₀ > 1400 mg/kg, rat. Dermal : LD₅₀ > 2 000 mg/kg, rabbit. Inhalation : LC₅₀ (4h) > 3.3 mg/L, rat.</p> <p>Skin irritation: Mild irritant, rabbit. Eye irritation : Mild irritant, rabbit. Sensitization : Did not cause sensitization on laboratory animals.</p>	
12) Ecological Information:	
<p>Bees : LD₅₀ (48h) Oral >180 µg/bee; Contact >100 µg/bee. Birds : LC₅₀ Bobwhite quail > 4000 mg/kg. & Mallard ducks > 5000 mg/kg. Fish : LC₅₀ (96h) Rainbow trout > 0.8 mg/L, Bluegill sunfish >1.2 mg/L. Daphnia : EC₅₀ (48h) > 0.77 mg/L. Algae : EC₅₀ (72h) <i>Scenedesmus subspicatus</i> 1.0 mg /L. Worms : Acute LC₅₀ (14 d) >600 mg/kg.</p> <p>Persistence: Low potential to leach below top soil layer. Soil dissipation rate is slow and dependent on application rate; DT₅₀ 50–150 d. DT₅₀ 2 days from water. K_{oc,ads} 3759 ml/g</p>	
13) Disposal Considerations:	

Waste Disposal : : 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 chemicals waste disposal facility.

Container Disposal : Refer to the product label for instructions.

Container Refilling and 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: 3082

Road Transport ADR/ RID:

Class: 9

Packaging group: III Labelling

no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Maritime Transport IMDG / IMO:

Class: 9

Packaging group: III Labelling

no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Air transport ICAO / IATA:

Class: 9

Packaging group: III Labelling

no: 9

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

15) Regulatory Information:

Symbol(s): N- Dangerous for the environment
Xi - Irritant
F - Flammable

R-phrase(s):

R10 – Flammable.

R36/38 – Irritating to eyes and skin.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

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

S-phrase(s):

S2 - Keep out of reach of children.

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

S20/21 – When using, do not eat drink or smoke.

S26 -In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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 special instructions/Safety data sheets.

S62- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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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