


## Safety Data Sheet

### Corona 250 EW L7603 (Act 36 of 1947)

Namibian Reg. No. N-AR 2106

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	CORONA 250 EW
Other means of identification:	Tebuconazole 250 g/L EW
Chemical Name:	(±)-α-[2-(4-chlorophenyl)ethyl]-α-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol
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:	
Product Classification:	Acute Toxicity (Oral) Category 4 Acute Toxicity (Dermal) Category 4 Skin Irritation Category 3 Eye Irritation Category 1 Carcinogenicity Category 2 Reproductive Toxicity Category 2 Aquatic Acute Category 1 Aquatic Chronic Category 1
Label Elements: Globally Harmonized System, EU (GHS):	<p>Pictograms:</p>  <p>Signal Word: Danger</p> <p><b>Hazard Statements:</b>  <b>H302:</b> Harmful if swallowed.  <b>H312:</b> Harmful in contact with skin.  <b>H315:</b> Causes skin irritation.  <b>H318:</b> Causes serious eye damage.  <b>H319:</b> Causes serious eye irritation.  <b>H335:</b> May cause respiratory irritation.  <b>H351:</b> Suspected of causing cancer.</p>

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

**H361d:** Suspected of damaging the unborn child.  
**H400:** Very toxic to aquatic life.  
**H410:** Very toxic to aquatic life with long-lasting effects.  
**H413:** May cause long-lasting harmful effects to aquatic life.

**Precautionary Statements:**

**P201:** Obtain special instructions before use.  
**P202:** Do not handle until all safety precautions have been read and understood.  
**P262:** Do not get in eyes, on skin, or on clothing.  
**P263:** Avoid contact during pregnancy or while nursing.  
**P270:** Do not eat, drink or smoke when using the product.  
**P272:** Contaminated work clothing should not be allowed out of the workplace.  
**P273:** Avoid release to the environment.  
**P280:** Wear protective gloves, protective clothing, eye protection.  
**P405:** Store locked up.

**Hazard Symbol(s):**

Xn – dangerous to health  
Xi - Irritant  
N – dangerous for the environment

**Risk Phrases:**

**R20/21/22:** Harmful by inhalation, in contact with skin and if swallowed.  
**R36/38:** Irritating to eyes and skin.  
**R40:** Limited evidence of a carcinogenic effect.  
**R41:** Risk of serious damage to eyes.  
**R51/53:** Toxic to aquatic organisms may cause long term effects in the aquatic environment.

**Safety Phrases:**

**S1/2:** Keep locked up and out of the reach of children.  
**S13:** Keep away from food, drink and animal feedingstuffs.  
**S16:** Keep away from sources of ignition – No smoking.  
**S20/21:** When using do not eat, drink or smoke.  
**S23:** Do not breathe vapour/spray.  
**S24/25:** Avoid contact with skin and eyes.  
**S26:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**S35:** This material and its container must be disposed of in a safe way.  
**S36/37/39:** Wear suitable protective clothing, gloves and eye/face protection.  
**S57:** Use appropriate containment to avoid environmental contamination.  
**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.

**3) COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Substances:**

Not applicable


**3.2 Mixtures:**

Chemical name	Concentration	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)
Tebuconazole	250 g/L	107534-96-3	403-640-2	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Repr. 2 (H361d)
Isophorone	35%	78-59-1	201-126-0	Acute Tox 4 (H302) Acute Tox 4 (H312) Eye Irrit. 2 (H319) STOT SE 3 (H335) Carc. 2 (H351)
Rhodacal 70 B	9%	26264-06-2	247-557-8	Acute Tox 4 (H302)

				Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 4 (H413)
4) FIRST AID MEASURES				
<b>Description of First-Aid Measures:</b>				
<b>Inhalation:</b>		Remove patient to fresh air. 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>Skin contact:</b>		Immediately flush body with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Seek medical assistance should irritation persist.		
<b>Eye contact:</b>		Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. <b>Seek medical assistance.</b>		
<b>Ingestion:</b>		Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre. <b>Seek medical assistance immediately.</b>		
<b>Most important symptoms and effects, both acute and delayed:</b>		None known.		
<b>Indication of any immediate medical attention and special treatment needed:</b>		Treat symptomatically. Perform gastric lavage and give medicinal charcoal in water if ingested.		
5) FIRE-FIGHTING MEASURES				
<b>Extinguishing Media:</b>		Water, CO2, Dry Chemical or Foam. Water can be used for larger fires or cooling of unaffected stock. But avoid accumulation of polluted run-off from site.		
<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>		HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2, NOx and Chlorides.		
<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. Dyke fire control water for later disposal. Do not scatter the material. Avoid pollution of waterways. 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.		
<b>Protective clothing:</b>		Full protective clothing and self-contained breathing apparatus		
6) ACCIDENTAL RELEASE MEASURES				
<b>Personal precautions, protective equipment and emergency procedures:</b>		Avoid contact with skin and eyes. Do not breathe in spray or fumes. 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. Considered as a marine pollutant.		
<b>Methods and material for containment and cleaning up:</b>		Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material such as sand, soil, diatomaceous earth etc. and place in waste containers. Prevent product from spreading. If spill does enter waterways contact the local authority. Dyke contaminated area of large spill. Remove and dispose of heavily contaminated soil layer. Collect in an appropriate		

	sealable container for disposal by incineration or disposal at a chemical waste disposal facility. Wash area with water containing soda and detergent and absorb with further inert material. Dispose of waste safely in an approved landfill.										
7) HANDLING & STORAGE											
<b>Precautions for Safe Handling:</b>		Avoid skin and eye contact and inhalation of spray mist. 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. Ensure proper ventilation when using open containers. Always wash hands before going on breaks; eating, drinking, chewing gum, using tobacco or the toilet. Wash clothing thoroughly before re-use.									
<b>Conditions for Safe Storage, including any incompatibilities:</b>		Store in original container tightly closed and in a locked, dry, ventilated, cool area away from foodstuffs, fertilisers and seeds.									
8) EXPOSURE CONTROL / PERSONAL PROTECTION											
<b>Appropriate Engineering Controls:</b>		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.									
<b>Control Parameters: Occupational exposure limits:</b>		<table><tr><td>Ingredient</td><td>CAS#</td><td>Limit</td><td>Basis</td></tr><tr><td>Tebuconazole</td><td>107534-96-3</td><td>0.2 mg/m<sup>3</sup></td><td>OES BCS</td></tr></table>		Ingredient	CAS#	Limit	Basis	Tebuconazole	107534-96-3	0.2 mg/m <sup>3</sup>	OES BCS
Ingredient	CAS#	Limit	Basis								
Tebuconazole	107534-96-3	0.2 mg/m <sup>3</sup>	OES BCS								
<b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b> <b>Clothing:</b>		Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Particulate filter should be worn if spray is encountered.									
<b>Gloves:</b>		Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance									
<b>Eye protection:</b>		The use of safety goggles or face shield is recommended.									
<b>Emergency eye wash:</b>		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											
<b>Form:</b>		Liquid									
<b>Colour:</b>		Clear yellow									
<b>Odour:</b>		Odourless									
<b>Solubility:</b>		Emulsifiable									
<b>pH:</b>		6.5 - 8.5									
<b>Odour threshold:</b>		Not available									
<b>Melting point / Freezing point</b>		105°C (Tebuconazole)									
<b>Initial boiling point and boiling range</b>		Not available									
<b>Flash point:</b>		>90°C									
<b>Evaporation rate:</b>		Not available									
<b>Flammability (solid, gas)</b>		Highly flammable									
<b>Upper/ lower flammability or explosive limits:</b>		Not available									
<b>Vapour pressure:</b>		0.0017 mPa 20°C (Tebuconazole)									
<b>Vapour density:</b>		Not available									
<b>Relative density:</b>		Not available									
<b>Partition coefficient: n-octanol/water</b>		Log K <sub>ow</sub> 3.7 (Tebuconazole)									
<b>Auto-ignition temperature:</b>		Not available									
<b>Decomposition Temperature:</b>		Not available									

<b>Viscosity:</b>	Not available
<b>10) STABILITY &amp; REACTIVITY</b>	
<b>Reactivity:</b>	No hazardous reactions if stored and handled as indicated.
<b>Chemical Stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Protect from sources of heat.
<b>Possibility of hazardous reactions:</b>	None known.
<b>Conditions to avoid:</b>	Avoid exposure to sunlight, open flames and sources of heat.
<b>Incompatible materials:</b>	Incompatible or can react with strong acids, strong bases and oxidising agents.
<b>Hazardous decomposition product(s):</b>	CO, CO <sub>2</sub> , NO <sub>x</sub> and Chlorides.
<b>11) TOXICOLOGICAL INFORMATION</b>	
<b>Acute Toxicity:</b>	
<b>Oral:</b>	LD <sub>50</sub> > 1600 mg/kg, male rat.
<b>Dermal:</b>	LD <sub>50</sub> > 5,000 mg/kg, rabbits.
<b>Inhalation:</b>	LD <sub>50</sub> (4 h) 0.37 mg/l air, rat.
<b>Skin Corrosion/Irritation:</b>	Not a skin irritant, rabbit.
<b>Serious Eye Damage/Irritation:</b>	Moderate irritant, rabbit.
<b>Respiratory or Skin Sensitization:</b>	Animal test did not cause sensitization by skin contact, guinea pig.
<b>Germ Cell Mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	Suspected of causing cancer.
<b>Reproductive Toxicity:</b>	Suspected of damaging the unborn child.
<b>STOT-SE:</b>	May cause respiratory irritation.
<b>STOT-RE:</b>	No data available
<b>Aspiration Hazard:</b>	No data available
<b>12) ECOLOGICAL INFORMATION</b>	
<b>Ecotoxicity:</b>	
<b>Birds:</b>	Oral LD <sub>50</sub> Japanese quail > 4,000 mg/kg (male); > 2,000 mg/kg (female), Bobwhite quail >1,900 mg/kg.
<b>Fish:</b>	LC <sub>50</sub> (96h) Rainbow trout > 4,0 mg/l.
<b>Daphnia:</b>	LC <sub>50</sub> (48h) > 4.0 mg/l.
<b>Algae:</b>	EC <sub>50</sub> (72h, static) <i>Selenastrum capricornutum</i> 3.80 mg/l
<b>Worms:</b>	LC <sub>50</sub> (14d) <i>Eisenia foetida</i> 1381 mg/kg dry soil.
<b>Bees:</b>	Oral LD <sub>50</sub> (48h) 83 µg/bee; Contact >2 µg/bee.
<b>Persistence and Degradability:</b>	The degradation of tebuconazole in soil was slow in laboratory studies. Under field conditions, the compound degraded much more rapidly, and did not accumulate in long-term studies (3–5 y).
<b>Bio-accumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	Adsorption/desorption studies indicated a low mobility in the soil, and groundwater contamination through leaching can be excluded.
<b>13) DISPOSAL CONSIDERATIONS</b>	
<b>Waste Disposal:</b>	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. 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. If not recycling, perforate, flatten and bury empty containers in a local authority landfill. <b>DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.</b> Do not transport if this container is damaged or leaking
<b>14) TRANSPORTATION INFORMATION</b>	
<b>Road Transport ADR / IRD:</b>	UN NUMBER: 2902 UN Proper Shipping name: PESTICIDES, LIQUID, TOXIC, N.O.S. (Tebuconazole) Transport Hazard Class: 6.1 Packaging group: III Labelling no: 6.1 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: PESTICIDES, LIQUID, TOXIC, N.O.S. (Tebuconazole) Transport Hazard Class: 6.1 Packaging group: III Labelling no: 6.1 Environmental Hazards: Marine pollutant Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling. 
<b>Air Transport ICAO / IATA:</b>	UN NUMBER: 2902 UN Proper Shipping name: PESTICIDES, LIQUID, TOXIC, N.O.S. (Tebuconazole) Transport Hazard Class: 6.1 Packaging group: III Labelling no: 6.1 Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
<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: 25/06/2010  Date revised: 25/04/2016, 06/01/2021</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> <li>7. STOT: Specific Target Organ Toxicity</li> <li>8. SE: Single exposure</li> <li>9. RE: Repeated exposure</li> <li>10. OES: Occupational Exposure Standard</li> <li>11. BCS: Bayer Crop Science</li> </ol>	

**Literature References:**

- GHS: [www.ccohs.ca/oshanswers/chemicals/ghs.html](http://www.ccohs.ca/oshanswers/chemicals/ghs.html)
- ECHA: <https://echa.europa.eu/search-chemicals>