

**Raxil®**Date of Issue: 10th October 2016

Date of Previous Issue: 12th September 2012

1. Identification of the Substance/Mixture and Supplier.

Product name:	Raxil
Other names:	Raxil FS 025
Application:	Seed Treatment Fungicide
EPA approval:	HSR000520
Company:	Bayer New Zealand Limited, 3 Argus Place, Hillcrest, Auckland 0627, New Zealand.
Telephone:	0800 428 246
Facsimile:	(09) 441 8645
Emergency telephone:	0800 734 607 (24hr)

2. Hazards Identification.

Hazard classification:	Classified as hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Classification and type:	HSNO Class 6.5B May cause skin sensitisation. 6.9B May cause damage to organs through prolonged or repeated oral exposure. 9.1C Harmful to aquatic organisms with long-lasting effects.

3. Composition/Information on Ingredients.

Chemical nature Flowable suspension (FS) Tebuconazole 25 g/kg
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Hazardous components

Chemical Name	CAS-No. / EC-No.	Concentration [%]
Tebuconazole	107534-96-3	2.5
Other ingredients determined not to be hazardous		97.5

4. First Aid Measures.

General advice:	Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
Inhalation:	Move to fresh air. Keep patient warm and at rest. Call a doctor or poison control centre immediately.
Skin contact:	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
Ingestion:	Rinse mouth. Do NOT induce vomiting. Call a doctor or poison control centre immediately.
Most important symptoms and effects, both acute and delayed:	No symptoms known or expected.
Treatment:	Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.
Further information:	Contact the National Poisons and Hazardous Chemicals Information centre in Dunedin, PO Box 913, Dunedin. Phone 0800 POISON (0800 764 766).

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5. Fire-Fighting Measures.	
Suitable extinguishing media:	Water spray, carbon dioxide (CO ₂), foam, sand.
Special hazards arising from the substance or mixture:	In the event of fire the following may be released: Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid) Carbon monoxide (CO) Nitrogen oxides (NO _x)
Special protective equipment for fire-fighters:	In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.
Further information:	Contain the spread of the fire-fighting media. Do not allow run-off from fire-fighting to enter drains or water courses.
6. Accidental Release Measures.	
Personal precautions:	Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition. Use personal protective equipment.
Environmental precautions:	Do not allow to get into surface water, drains and ground water.
Methods for cleaning up:	Use mechanical handling equipment. Clean contaminated floors and objects thoroughly, observing environmental regulations. Keep in suitable, closed containers for disposal.
Additional advice:	Information regarding safe handling: see section 7. Information regarding personal protective equipment: see section 8. Information regarding waste disposal, see section 13.
7. Handling and Storage.	
Handling:	Advice on safe handling Use only in area provided with appropriate exhaust ventilation. Advice on protection against fire and explosion Dust may form explosive mixture in air. Keep away from heat and

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Storage:	<p>sources of ignition.</p> <p>Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. If necessary, have a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).</p> <p>Requirements for storage areas and containers Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight.</p> <p>Advice on common storage Keep away from food, drink and animal feeding stuffs.</p> <p>Specific end uses Refer to the label and/or leaflet.</p>
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8. Exposure Control/Personal Protection.

Respiratory protection:	<p>Components with workplace control parameters</p> <table border="1"> <thead> <tr> <th>Components</th> <th>CAS-No.</th> <th>Control parameters</th> <th>Update</th> <th>Basis</th> </tr> </thead> <tbody> <tr> <td>Tebuconazole</td> <td>107534-96-3</td> <td>0.2 mg/m³ (TWA)</td> <td></td> <td>OES BCS*</td> </tr> <tr> <td>Glycerin</td> <td>56-81-5</td> <td>10 mg/m³ (TWA)</td> <td></td> <td></td> </tr> </tbody> </table> <p>*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"</p> <p>Personal protect equipment: In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.</p> <p>If product is handled while not enclosed, and if contact may occur: Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator</p>	Components	CAS-No.	Control parameters	Update	Basis	Tebuconazole	107534-96-3	0.2 mg/m ³ (TWA)		OES BCS*	Glycerin	56-81-5	10 mg/m ³ (TWA)		
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Hand protection:	manufacturer's instructions regarding wearing and maintenance. Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0.40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.
Eye protection:	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection:	Wear standard coverall and Category 3 Type 5 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

9. Physical and Chemical Properties.

Appearance	
Form:	Liquid suspension
Colour:	Red
Odour:	Slight characteristic smell
Specific gravity:	Approx. 1.15 gm/cm ³ @ 20°C
Safety Data:	9.0 – 11 (undiluted)
pH:	Miscible
Water solubility:	
Partition coefficient: octanol/water	Tebuconazole: log Pow: 3.7
Other information:	Further safety related physical-chemical data are not known.

10. Stability and Reactivity.

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Reactivity:	Thermal decomposition: From 140 °C; exothermic decomposition
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	No hazardous reactions known under conditions of normal use.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Incompatible materials:	Store only in the original container.
Hazardous decomposition products:	No decomposition products expected under normal conditions of use.
11. Toxicological Information.	
Acute oral toxicity:	LD50 (rat) > 5000 mg/kg
Acute dermal toxicity:	LD50 (rat) > 5,000 mg/kg
Skin irritation:	No skin irritation
Eye irritation:	No eye irritation
Sensitization:	Sensitizing (guinea pig)
Assessment repeated dose toxicity:	Tebuconazole did not cause specific target organ toxicity in experimental animal studies.
Assessment mutagenicity:	Tebuconazole was not mutagenic or genotoxic in a battery of <i>in vitro</i> and <i>in vivo</i> tests.
Assessment carcinogenicity:	Tebuconazole caused at high dose levels an increased incidence of tumours in mice in the following organ(s): liver. The mechanism of tumour formation is not considered to be relevant to man.
Assessment toxicity to reproduction:	Tebuconazole caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Tebuconazole is related to parental toxicity.

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Assessment developmental toxicity:	Tebuconazole caused developmental toxicity only at dose levels toxic to the dams. Tebuconazole caused an increased incidence of post implantation losses, an increased incidence of non-specific malformations.
12. Ecological Information.	
Toxicity to fish:	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 4.4 mg/L Exposure time: 96 h The value mentioned relates to the active ingredient.
Toxicity to aquatic invertebrates:	EC50 (Water flea (<i>Daphnia magna</i>)) 2.79 mg/L Exposure time: 48 h The value mentioned relates to the active ingredient.
Chronic toxicity to aquatic invertebrates:	<i>Daphnia</i> NOEC: 0.010 mg/L Exposure time: 21 d The value mentioned relates to the active ingredient tebuconazole.
Toxicity to aquatic plants:	IC50 (<i>Pseudokirchneriella subcapitata</i>) 3.8 mg/L Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient. EC ₅₀ (<i>Lemna gibba</i> (duckweed)) 0.144 mg/L The value mentioned relates to the active ingredient tebuconazole. (<i>Lemna gibba</i> (duckweed)) 0.237 mg/L Growth rate; Exposure time: 14 d The value mentioned relates to the active ingredient tebuconazole.
Biodegradability:	Tebuconazole: not rapidly biodegradable.
Koc	Tebuconazole: Koc: 769
Bioaccumulation:	Tebuconazole: Bioconcentration factor (BCF) 35 - 59 Does not bioaccumulate.
Mobility in soil:	Tebuconazole: Slightly mobile in soils
Results of PBT and vPvB assessment:	Tebuconazole: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
Other adverse effects:	No other effects to be mentioned.

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13. Disposal Considerations.	
Product Disposal:	Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.
Container Disposal:	Ensure container is completely empty. Recycle if possible. If allowed under local authority, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. Do not use container for any other purpose.
14. Transport Information.	
Rail/Road (RID/ADR):	NA.
Sea (IMDG-Code):	NA
Air (ICAO/IATA):	NA.
15. Regulatory Information.	
HSNO Approval Number:	HSR000520
HSNO Controls:	See www.epa.govt.nz for controls.
ACVM Registration:	P5425
ACVM Controls:	See www.foodsafety.govt.nz for registration conditions.
16. Other Information.	
N/A	

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SAFETY DATA SHEET



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The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe products in terms of their safety requirements. The above details do not imply any guarantee concerning composition, properties or performance of the product.