

MATERIAL SAFETY DATA SHEET

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STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia

COMPANY DETAILS:

Company: Aventis CropScience Pty Ltd A.C.N. 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn, Victoria 3123
Telephone/Facsimile: (03) 9248 6888/(03) 9248 6800
Website Address: www.aventis.com.au
Emergency Telephone Number: 1800 033 111 – SHE Pacific

IDENTIFICATION

Product Name: **Real® 200C Seed Dressing Fungicide**
Other Names: None assigned
Manufacturer's Product Code: Not available
SAP Product Code: 17070 (10 L)
UN Number: Not applicable
Dangerous Goods Class and Subsidiary Risk: Not classified as dangerous goods for transport by road or rail
Hazchem Code: Not applicable
Proper Shipping Name: Not applicable
Packing Group: Not applicable
EPG: Not applicable
Chemical Family: Azole + synthetic pyrethroid
Poisons Schedule Number: 5
Use: For use as a seed treatment

Physical Description/Properties

Appearance: Viscous blue liquid with no distinctive odor
Boiling Point/Melting Point: Not determined
Vapour Pressure: Not determined
Specific Gravity: 1.08 at 20°C
Flashpoint: Non-flammable
Flammability Limits: Not applicable
Solubility in Water: 7 mg/L (10°C), independent of pH (technical triticonazole)
Formulation: Flowable concentrate

Other Properties:

pH: 4 (undiluted)

Ingredients:

Chemical Name:	CAS Number:	Proportion:
Triticonazole	131983-72-7	200 g/L
Propylene glycol	57-55-6	<10%
Cypermethrin	52315-07-8	4 g/L
Other ingredients	(non hazardous)	to 100%

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HEALTH HAZARD INFORMATION

Health Effects:

Acute:

Swallowed: Low oral toxicity.

Eye: Will irritate the eyes.

Skin: Will irritate the skin. Facial skin contact may cause temporary facial numbness. Low dermal toxicity.

Inhaled: Low inhalation toxicity.

Other Health Effects: No other health effects known.

Chronic: Chronic NOEL for rats 29.4 mg/kg bw/day (male); 38.34 mg/kg bw/day (female) (triticonazole); 7.5 mg/kg (cypermethrin). Triticonazole and cypermethrin are non-carcinogenic and non-genotoxic. No chronic effect is expected when used according to label directions.

First Aid **If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to a doctor.**

Swallowed: If swallowed, immediately contact doctor or Poisons Information Centre, as above.

Eye: Immediately irrigate with copious quantities of water for at least 15 minutes. Contact doctor or Poisons Information Centre, as above.

Skin: Remove contaminated clothing. Wash affected areas with plenty of soap and water.

Inhaled: Remove victim to fresh air. Contact doctor or Poisons Information Centre, as above.

First Aid Facilities: Ensure washing facilities are available.

Advice to Doctor: The active ingredient belongs to the triazole group of fungicides. Cypermethrin is a synthetic pyrethroid. Treat symptoms. No specific antidote known.

Other First Aid: DO NOT attempt to give anything by mouth to a semi-conscious or unconscious person.

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PRECAUTIONS FOR USE

- Exposure Standards: No occupational exposure standards have been established for the product or its ingredients. NOHSC has established an exposure standard for dust of 10 mg/m³ Time Weighted Average (inspirable dust).
- Engineering Controls: Use in a well-ventilated area only.
- Personal Protection: Avoid contact with eyes and skin. When opening the container and preparing product for use, wear elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves. Workers exposed to grain dust may wear a disposable dust mask.
- Flammability: Non-flammable under conditions of use.
- Other Use Precautions To be used strictly in accordance with label instructions.

SAFE HANDLING INFORMATION

- Storage and Transport:**
- Corrosivity Hazards: None known
- Handling & Storage Precautions: Keep out of reach of children. Wear long sleeved overalls and gloves while handling. After handling and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Store in the closed, original container in a dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Avoid contact with eyes, skin and clothing, and avoid inhalation of product or dust from treated seed. Must be stored and transported according to local, State/Territory and Federal regulations.
- Transport: Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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SAFE HANDLING INFORMATION (CONTINUED)

Spills and Disposal:

Spillage or Leak
Procedures:

Avoid contact with eyes, skin and clothing or inhalation of product. Dealing with spills and disposals may result in the potential for increased personal exposure. During such operations it is recommended that the following protective clothing is worn:

- * Cotton overalls buttoned to the neck and wrist
- * Elbow-length PVC gloves
- * Face-shield or goggles
- * Impervious footwear

CONTAIN SPILL and absorb with earth, sand, sawdust, clay, sweeping material or absorbent material and store in properly labelled, sealed drums for safe disposal in an approved landfill, or bury under at least 500 mm of soil in a non-crop, non-pasture area away from water sources or homes. DO NOT burn empty containers or product. Deal with all spillages immediately. Keep people away and upwind. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

Waste Disposal
Methods:

Triple or, preferably, pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on-site. Break, crush or puncture and bury empty containers in local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers or product should not be burnt.

Fire / Explosion Hazard:

Extinguishing Media:

Extinguish fire using: Carbon dioxide, water, dry agents, foam

Special Fire Fighting
Procedures:

Full protective gear, including self-contained breathing apparatus (SAA 1716), must be worn.

Reactivity Hazards:

(Reactivity Data)

Stable under normal conditions of use.
No dangerous reaction known under normal conditions of use.
CONDITIONS CONTRIBUTING TO INSTABILITY: Extreme heat and fire.
INCOMPATIBILITY: Compatible with most other chemical compounds.
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic thermal decomposition products may include oxides of carbon, nitrogen and compounds of chlorine.

Other Safe Handling:

Neutralizing chemicals: Hydrated lime.

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OTHER INFORMATION:

Toxicology: (<i>triticonazole</i>)	Oral LD ₅₀ (mg/kg)	>2000	Species:	Rat
	Dermal LD ₅₀ (mg/kg)	>2000	Species:	Rat
	Inhalation LC ₅₀ (mg/L) (4 h)	>1.4	Species:	Rat

Toxicology: (<i>cypermethrin</i>)	Oral LD ₅₀ (mg/kg)	250 to 4150	Species:	Rat
	Dermal LD ₅₀ (mg/kg)	>4920	Species:	Rat
	Inhalation LC ₅₀ (mg/L) (4 h)	2.5	Species:	Rat

Environmental / Ecological Effects: **Bee toxicity** – Cypermethrin is highly toxic to bees. LD₅₀ (24 h) (oral) 0.035 µg/bee; (topical) 0.02 µg/bee.

Bird toxicity

Triticonazole technical ingredient:

LD₅₀: >200 mg/kg for Bobwhite quail (*Colinus virginianus*), Red-legged partridge (*Alectoris rufa*), Grey partridge (*Perdix perdix*), Domestic pigeon (*Columba livia*), Ring-necked pheasant (*Phasianus colchicus*).

Cypermethrin technical ingredient:

LD₅₀: mallard ducks >10,000 mg/kg; chickens >2000 mg/kg.

Fish toxicity

Triticonazole technical ingredient:

LC₅₀: >10 mg/L (96 h); Rainbow trout (*Oncorhynchus mykiss*) and Bluegill sunfish (*Lepomis macrochirus*).

Cypermethrin technical ingredient:

LC₅₀: rainbow trout >0.69 µg/L; sheepshead minnow >2.37 µg/L

Daphnia toxicity

Triticonazole technical ingredient:

LC₅₀: >10 mg/L (96 h) *Daphnia magna*.

Cypermethrin technical ingredient:

LC₅₀ >0.15 µg/L (96 h) *Daphnia magna*.

Special Precautions / None

Comments:

Data Sources / Rhône-Poulenc MSDS

References:

CONTACT POINT:

Emergency Contact Number: 1800 033 111 (SHE Pacific)

Development Manager: (03) 9248 6888

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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