MATERIAL SAFETY DATA SHEET

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STATEMENT OF HAZARDOUS NATURE
Hazardous according to criteria of National Occupational Health & Safety Commission.
R22 – Harmful if swallowed

COMPANY DETAILS:
Company: Bayer CropScience Pty Ltd A.B.N. 87 000 226 022
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Telephone/Facsimile: (03) 9248 6888/(03) 9248 6800
Website Address: www.bayercropscience.com.au
Emergency Telephone Number: 1800 033 111 - Orica SH&E Shared Services

IDENTIFICATION

Product Name: Vision® 250 SC Fungicide
Other Names: Not applicable
Manufacturer’s Product Code: CR 21167, CQ 1407
SAP Product Code: 4174355 (5 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: Anilinopyrimidine and triazole
Poisons Schedule Number: 6
Use: Fungicide

Physical Description/Properties
Appearance: Off white flowable liquid with characteristic low odour
Boiling Point/Melting Point: No data
Vapour Pressure: No data
Relative Density: 1.056 g/mL
Flashpoint: Not flammable
Flammability Limits: Not applicable
Solubility in Water: Disperses in water

Other Properties:
pH (1% v/v in water at 19° C) 6.3
Auto-ignition temperature (°C) Not applicable
Viscosity at 22°C 10860 mPaS (Brookfield)

Ingredients:
Chemical Name: Proportion g/L:
Pyrimethanil [53112-28-0] 200
Fluquinconazole [136426-54-5] 50
Other ingredients, including water (not hazardous) ~ 810

VISION 250 SC FUNGICIDE
HEALTH HAZARD INFORMATION

Health Effects:

Acute:
Swallowed: Harmful if swallowed.

Eye: Will irritate the eyes. The material should not be allowed to contact the eyes.

Skin: Not expected to irritate the skin. Not sensitising to skin in animal tests.

Inhaled: Avoid breathing spray / fumes. The product is expected to have low inhalation toxicity.

Chronic:

Pyrimethanil
In animal studies pyrimethanil was not mutagenic, carcinogenic or teratogenic, and did not produce reproductive effects. In a combined chronic toxicity/carcinogenicity study in rats (2-year feeding) the NOEL was found to be 20 mg/kg/day.

Fluquinconazole
In a carcinogenicity study fluquinconazole gave evidence of non-genotoxic effects not relevant to man. Negative in a battery of genotoxicity tests. No treatment related effects in a rat multi-generation reproductive study at doses at 0.9 mg/kg/day. At higher dose levels there was parental toxicity and effects on pup growth and survival.

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: Wash out mouth with water. Keep patient at rest and seek immediate medical advice as above.

Eye: Rinse immediately with clean water, including under eyelids, for at least 15 minutes and obtain medical advice.

Skin: Carefully remove contaminated clothing. Wash affected areas with soap and water. Seek medical aid if irritation persists or if at all worried.

Inhaled: If inhaled, remove to fresh air and keep at rest. Obtain medical advice if at all worried.

First Aid Facilities: Provide eyewash facilities in the workplace.
HEALTH HAZARD INFORMATION – continued

Advice to Doctor:

Symptoms of systemic poisoning include gastro-intestinal irritation, possible liver damage, lethargy, weakness, ataxia, muscle tremors and incontinence. Fluquinconazole has a relatively long half-life and slow elimination.

Treatment:

Local contamination – Symptomatic after decontamination. In case of skin or eye contamination, treat as above under First Aid.

Systemic poisoning – Initial treatment should be symptomatic and supportive. Monitor the respiratory, cardiac and liver functions and the Central Nervous System, with particular reference to liver enzymes. Carry out gastric lavage and charcoal administration. Anticonvulsant therapy is not appropriate. There is no specific antidote. There are no specific contraindications.

PRECAUTIONS FOR USE

Exposure Standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia) for any components of this product. Bayer recommends exposure standards of 6 mg/m³ for pyrimethanil and 0.3 mg/m³ for fluquinconazole.

Engineering Controls: Control process conditions to avoid contact. Use local exhaust ventilation during manufacture. Use only in well-ventilated areas.

Personal Protection:

Eyes: Avoid contact with the eyes. Wear safety goggles.

Clothing: Wear cotton overalls buttoned to the neck and wrist and a washable hat.

Gloves: Wear elbow length PVC gloves.

Respiratory: Do not breathe spray/fumes. In case of insufficient ventilation, wear suitable respiratory equipment.

Other: Do not eat, drink or smoke until after washing. Wash thoroughly after handling. After each day’s use wash gloves, goggles and contaminated clothing.

Flammability: Not flammable or combustible

SAFE HANDLING INFORMATION

Storage and Transport:

Corrosivity Hazards: No data

Handling & Storage Precautions: Keep out of reach of children. Will irritate the eyes. Avoid contact with eyes. Store in the closed, original container in a cool, well-ventilated secure area. Do not store for prolonged periods in direct sunlight. Protect the product from frost.
SAFE HANDLING INFORMATION – continued

Transport: Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Spills and Disposal:
Spillage or Leak Procedures: Avoid contact with the spilled material or contaminated surfaces. When dealing with spills do not eat, drink or smoke and wear protective clothing and equipment as described in the PERSONAL PROTECTION section. Keep people and animals away. Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. 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 spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or collection point. If not recycling, break, crush or puncture and bury empty containers in a 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 and product should not be burnt. Dispose of waste product through a reputable waste contractor.

Fire/Explosion Hazard:
Extinguishing Media: Use waterspray, foam, dry powder, carbon dioxide or sand depending on the nature of the combustible materials.

Special Fire Fighting Procedures: Product is not combustible. May give off toxic fumes if burnt. Firefighters should use self-contained breathing apparatus (AS/NZS 1715, 1716) and protective clothing. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area to prevent contamination of water sources. Dispose of fire control extinguishing agent and spillage later in a safe manner.

Reactivity Hazards: None known.

OTHER INFORMATION:
Acute toxicity data: Oral LD₅₀ (mg/kg) 956 / 1100 Species: Rat F/M
Dermal LD₅₀ (mg/kg) > 4000 Species: Rat
Inhalation LC₅₀ (mg/L) No data Species:
Eye irritation Slightly and reversibly irritating Species: Rabbit
Skin irritation Not irritating Species: Rabbit
Sensitisation Not a skin sensitisier Species: Guinea pig
ENVIRONMENTAL / ECOLOGICAL EFFECTS:
This product is highly toxic to algae and aquatic invertebrates. DO NOT contaminate streams, rivers or waterways with this product or used containers. Vision presents a low hazard to bees and earthworms, but may be a hazard to parasitic wasps. Low toxicity to birds. No significant effects on soil microbial activity. Vision is not readily biodegradable and has a low potential for groundwater contamination.

Pyrimethanil
Fish toxicity: LC$_{50}$ (96 hr) rainbow trout 10.6 mg/L; carp 35.4 mg/L
Bird toxicity: Acute oral LD$_{50}$ mallard duck and bobwhite quail >2000 mg/kg
Other: LC$_{50}$ Daphnia (48 hr) 2.9 mg/L. E$_{5}$C$_{50}$ algae (96 hr) 1.2 mg/L

Fluquinconazole
Fish toxicity: LC$_{50}$ (96 hr) rainbow trout 1.9 mg/L; bluegill sunfish 1.34 mg/L; carp 1.9 mg/L
Bird toxicity: Acute oral LD$_{50}$ bobwhite quail and mallard duck >2000 mg/kg
Other: LC$_{50}$ (48 hr) Daphnia >5 mg/L. E$_{5}$C$_{50}$ (96 hr) algae 0.046 mg/L; E$_{5}$C$_{50}$ (96 hr) algae 0.014 mg/L

SPECIAL PRECAUTIONS/ COMMENTS:
None

DATA SOURCES / REFERENCES:
Bayer CropScience Pty Ltd - product safety data

CONTACT POINT:
Emergency Contact Number: 1800 033 111 (Orica SH&E Shared Services)
Development Manager: (03) 9248 6888

This MSDS summarises 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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