

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 ABN 87 000 226 022
Address: 391 – 393 Tooronga Road, East Hawthorn, Victoria 3123
Australia
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: **Jockey[®] Systemic Seed Fungicide**
Other Names: Jockey Flexi
Manufacturer's Product Code: CR21528 or AE C597265
SAP Product Code: 20832 (5 L); Not available (20 L)
UN Number: UN 2902
Dangerous Goods Class and Subsidiary Risk: 6.1
Subsidiary risk: None
Hazchem Code: 2X
Proper Shipping Name: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains fluquinconazole)
Packing Group: III
EPG: Guide 34 - Dangerous Goods - Initial Emergency Response Guide
Chemical Family: Azole
Poisons Schedule Number: 6
Use: Fungicidal seed treatment

Physical Description/Properties

Appearance: Flowable red liquid suspension with a faint odour
Boiling Point/Melting Point: Not determined
Vapour Pressure: Not determined
Specific Gravity: 1.07 at 20 °C
Flash Point: Not combustible
Flammability Limits: Not determined
Solubility in Water: Miscible

Other Properties:

pH: Approx. 7
Vapour density: As for water

Ingredients:

Chemical Name:	CAS Number:	Proportion (g/L):
Fluquinconazole	[136426-54-5]	167
Inert ingredients including water	(non hazardous)	~ 900

JOCKEY SYSTEMIC SEED FUNGICIDE

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HEALTH HAZARD INFORMATION

Health Effects:

Acute:

Swallowed: Harmful if swallowed.

Eye: May irritate the eyes. Avoid contact with eyes. In animal tests the product was found to be non-irritating to rabbit eyes.

Skin: Negligible skin penetration. Not irritating or sensitising to skin in animal tests.

Inhaled: Mist is harmful by inhalation, but not required to be classified as such.

Chronic: 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 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: If swallowed, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Wash out mouth with water. Keep patient at rest.

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 area with soap and water. If irritation persists seek medical advice.

Inhaled: Inhalation improbable. If inhaled, remove to fresh air and obtain medical advice.

First Aid Facilities: None

Advice to

Doctor:

Local contamination may cause slight skin and eye irritation. Symptoms of systemic poisoning include gastro-intestinal irritation, possible liver damage, lethargy, weakness, ataxia, muscle tremors and incontinence.

Treatment:

Local contamination – Symptomatic after decontamination.

Systemic poisoning – Initial treatment should be symptomatic and supportive. In the event of large exposure/amount (more than one mouthful) being ingested carry out gastric lavage and charcoal administration. Monitor the respiratory, cardiac and liver functions and the Central Nervous System, with particular reference to liver enzymes. There is no specific antidote.

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PRECAUTIONS FOR USE

Exposure Standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia).

Engineering Controls: Control process conditions to avoid contact. Use local exhaust ventilation during manufacture.

Personal Protection:

Eyes:	Safety goggles
Clothing:	Wear cotton overalls buttoned to neck and wrist, or equivalent clothing
Gloves:	Elbow-length PVC gloves
Respiratory:	None required when handling the product. Wear dust mask if handling dried treated grain in confined spaces.
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: Product is not combustible.

SAFE HANDLING INFORMATION

Storage and Transport:

Corrosivity Hazards: None known

Handling & Storage Precautions: Keep out of reach of children. Wash thoroughly with soap and water after handling and before eating, drinking or smoking. Store in the closed, original container in a cool, secure, well ventilated area. Do not store for long periods in direct sunlight. Do not store near foodstuffs or animal feed. Protect from frost. Store treated seed in clearly marked bags or silos, away from other grain, animal feed or foodstuffs, in a cool, dry storage area.

Transport: The product is classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains fluquinconazole), Class 6.1, Packing Group III, UN 2902.

Spills and Disposal:

Spillage or Leak Procedures: Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing as detailed in 'Personal Protection' section. Keep people and animals away. Prevent entry into drains, sewers and watercourses. Contain/absorb spillage in sand/earth or in a suitable inert material. Transfer collected material to heavy-duty plastic drums. Seal and label ready for disposal.

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SAFE HANDLING INFORMATION – continued

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 designated 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 the purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Fire/Explosion Hazard:

Extinguishing Media: If product is involved in a fire, use water spray, foam, dry powder, carbon dioxide or sand.

Special Fire Fighting Procedures:

Firefighters should use self-contained breathing apparatus. If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool. Whenever possible, contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water.

Reactivity Hazards:

Stable under normal conditions. May give off toxic fumes if burnt.

OTHER INFORMATION:

Acute toxicity data (similar product):	• Oral LD ₅₀ (mg/kg)	429 - 492	Species: Rat
	• Dermal LD ₅₀ (mg/kg)	> 4000	Species: Rat
	• Inhalation LC ₅₀ (mg/L)	No data	Species: ---

Environmental/ Ecological Effects:

Data given in this section are for the active ingredient.

Mobility:

Immobile in soil.

Persistence / Degradability:

Soil DT₅₀ 200 – 300 days (pH 7.0).
Water DT₅₀ 21.9 days (pH 7.0)
Photolysis DT₅₀ 92.4 days (290 - 360 nm)
BOD/COD 1.29 mg O₂/L.
Sediment/Water system DT₅₀ 12 - 15 days.

Bioaccumulation:

Log Pow = 3.24

Aquatic toxicity:

96 hr LC₅₀ trout 1.9 mg/L, carp 1.9 mg/L
48 hr EC₅₀ daphnia >5.0 mg/L
72 hr EC₅₀ algae 0.014 mg/L

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Other toxicity: Acute oral LD₅₀ duck > 2000 mg/kg
LC₅₀ quail 4392 mg/kg
Low toxicity to honeybees and earthworms.

Special Precautions / None
Comments:
Data Sources / Bayer CropScience – product safety data
References:

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.

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