



Material Safety Data Sheet

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Infosafe No™ 3NUDB Issue Date : April 2011 ISSUED by CRPCARE

Product Name **JOCKEY® Systemic Seed Fungicide**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name JOCKEY® Systemic Seed Fungicide
Product Code 5710
Product Type Group 3 Fungicide
Company Name CROP CARE AUSTRALASIA PTY LTD (ABN 53 061 362 347)
Address Unit 15/16 Metroplex Avenue Murarrie
 Queensland 4172 Australia
Emergency Tel. 1 800 033 111
Telephone/Fax Number Tel: (07) 3909 2000
 Fax: (07) 3909 2010
Recommended Use For the control of a range of foliar and head diseases in wheat and barley, plus the suppression of take-all, septoria tritici and glume blotch in wheat, net form net blotch in barley and blackleg in canola as specified in the Directions for Use table on the label.
Other Information This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous
 HAZARDOUS SUBSTANCE.
 NON-DANGEROUS GOODS.
 Hazard classification according to the criteria of NOHSC.
 Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s) Classified as hazardous
 R22 Harmful if swallowed.
 R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.
Safety Phrase(s) S13 Keep away from food, drink and animal feeding stuffs.
 S2 Keep out of reach of children.
 S36 Wear suitable protective clothing.
 S45 In case of accident or if you feel unwell seek medical advice immediately
Other Information Poisons Schedule S6

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	Name	CAS	Proportion
	Fluquinconazole	136426-54-5	167 g/L
	Other ingredients (considered non-hazardous)		Balance

4. FIRST AID MEASURES

Inhalation Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.
Ingestion Rinse mouth and then drink plenty of water.
 If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.
Skin Remove contaminated clothing and launder before re-use.
 Wash affected areas thoroughly with soap and water.
Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.
 Seek medical advice.



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Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Water fog, foam, carbon dioxide or dry chemical.

Hazards from Combustion Products Non-combustible. May emit hazardous smoke and fumes if involved in fires or exposed to extreme heat.

Special Protective Equipment for fire fighters Breathable air apparatus should be worn when fighting a fire in which this product is involved.

Other Information STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8. If product has dried out and the possibility of dust generation exists, wear a suitable respirator.

7. HANDLING AND STORAGE

Precautions for Safe Handling Seed treated with this product must not be used for animal or human consumption or be allowed to contaminate seed intended for animal or human consumption. Do NOT contaminate dams, rivers or streams, or any other water bodies with chemical or used containers.

Conditions for Safe Storage Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Treated seed, when stored, should be kept apart from other seed. The containers should be clearly marked to indicate the contents have been treated with this product.

Other Information Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been set for this product or the active ingredients.

Engineering Controls Handle in well ventilated areas, generally natural ventilation is adequate.

Personal Protective Equipment When opening the container, preparing mixture and using the prepared mixture wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length rubber gloves and face shield or goggles.

Hygiene Measures After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

Requirements Concerning Special Training Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid

Appearance Red liquid suspension

Odour Faint odour

Solubility in Water Disperses in water.

Specific Gravity 1.07

pH Value ~7



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Vapour Pressure 6.4 x 10⁻⁶ mPa (20°C, fluquinconazole)
Octanol/Water Partition Coefficient Kow Log P is 3.24 (pH5.6 for fluquinconazole)
Flammability Non combustible material.

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.
Hazardous Reactions Keep away from strong oxidising agents.
Hazardous Polymerization Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

Inhalation The components of the product are of low volatility and no adverse effects are expected from handling the concentrate. Symptoms of exposure by inhalation are similar to those described for ingestion.

Ingestion Possible symptoms of exposure to the concentrate include: nausea, vomiting and abdominal pains.

Skin May irritate the skin.

Eye The concentrate may cause irritation of the eyes.

Chronic Effects Evidence from animal studies indicate that repeated or prolonged exposure to fluquinconazole can result in effects on the thyroid, liver and kidneys.

Acute Toxicity - Oral LD50 (rat) 429 - 492 mg/kg for a similar product

Acute Toxicity - Dermal LD50 (rat) >4000 mg/kg for a similar product

Acute Toxicity - Inhalation LC50 (rat) (4hr) 0.745 mg/l for fluquinconazole

Eye Irritation Mild eye irritant.

Skin Irritation Mild skin irritant.

Skin Sensitisation Product is not a skin sensitiser.

Other Information The Australian Acceptable Daily Intake (ADI) for fluquinconazole for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', December 2008).

12. ECOLOGICAL INFORMATION

Persistence / Degradability Soil adsorption Koc >738 mg/kg. Adsorption studies indicate that fluquinconazole has very low mobility.

Other Precautions Do not feed treated seed, or otherwise expose, to wildlife and domestic animals, particularly birds. Any spillage of treated seed, however minor, must be cleaned up immediately, preferably recovered and used.

Acute Toxicity - Fish The following is data for the active ingredient, fluquinconazole. LC50 (96hr) for rainbow trout is 1.90 mg/l

Acute Toxicity - Daphnia EC50 (48hr) for daphnia is >5 mg/l.

Acute Toxicity - Algae EC50 for Selenastrum capricornutum is 0.014 mg/l.

Acute Toxicity - Other Organisms Birds: Not toxic to birds. LD50 for mallard ducks and bobwhite quail is >2000 mg/kg

13. DISPOSAL CONSIDERATIONS

Product Disposal Any seed treated with Jockey alone not intended for immediate sowing should be destroyed by burying below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.



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Container Disposal

Seed treated with this product must not be used for human or animal consumption or be allowed to contaminate seed intended for human or animal consumption. Seed should not be left exposed on the ground (particularly during sowing). Destroy treated seed not intended for sowing.

Do not use this container for any other purpose.

Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling, puncture or shred and bury containers in local authority landfill.

If no landfill is available, bury the containers below 500mm 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.

14. TRANSPORT INFORMATION

Transport Information Storage and Transport It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs. Considered non dangerous for road and rail transport (in packaging, including IBCs not greater than 3000 Lt each) by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Ref: ADG7; SP No. AU01.

UN Number (Sea Transport) For bulk shipments as Class 9, use UN 3082, HazChem code 2Z. 3082

IMO Class/Packing Group Class 9

IMO Marine Pollutant Marine Pollutant

IMO Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains fluquinconazole)

15. REGULATORY INFORMATION

Poisons Schedule S6

Packaging & Labelling POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Toxic

AICS (Australia) All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS Reviewed 12/04/2011

Contact Person/Point Revisions Highlighted Normal Hours: Mrs Kathleen Marsh Phone: (03) 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

The MSDS was reviewed. Various changes were made to the information. Product is now a Group 3 Fungicide (formerly Group C). Dangerous Goods information has been updated, product is no longer a DG by Road & Rail. Other minor changes made to the information.



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...End Of MSDS...

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