

SAFETY DATA SHEET

FLAMENCO

1164 6.00 GB Current 27.07.2000

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Trade Name	FLAMENCO
Product (Specification) Code	1164
Aventis CropScience Product Code	AE C597265 00 1K10 A1
Usage	Suspension Concentrate (oil based) Fungicide
Appearance	Flowable off-white liquid suspension
Manufacturer/Supplier	Aventis CropScience UK Limited
Address	Hauxton Cambridge CB2 5HU
Phone Number	01277 301125
Fax Number	01223 872142
Emergency Phone Number	0800 220876 (24 hr UK) +44 1603 242424 (24 hr Overseas)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components in Product for EC

Component Name	CAS No	Conc. %w/w	R Phrases	Classification
1. Fluquinconazole	136426-54-5	10.20	R23/25, R21, R48/ 22, R50/53	T, N
2. Alcohol ethoxylate	-	5.00 < 25.00	R36/38	Xi
3. Cocobis(2-hydroxyethyl)coco amine	61791-31-9	1.00 < 5.00	R22, R34, R50/53	C, N

3. HAZARDS IDENTIFICATION

Main Hazards	Harmful if swallowed. Irritating to eyes. May cause sensitisation by skin contact.
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4. FIRST-AID MEASURES

Eyes	Rinse immediately with clean water for at least 15 minutes and obtain medical aid.
Skin	Carefully remove contaminated clothing. Wash affected area with soap and water. Seek medical aid if at all worried.
Ingestion	Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.
Inhalation	If inhaled, remove to fresh air and keep at rest. Obtain medical aid if at all worried.
Advice to Physicians	Brief Summary of Symptoms and Signs: Local Contamination: None documented to-date. Systemic poisoning causes lethargy , weakness , ataxia , muscle tremors and incontinence Treatment: Local Contamination: Symptomatic after decontamination. Treat as documented above under 'First-Aid Measures'. Systemic Poisoning: Initial treatment should be symptomatic and supportive. Carry out gastric lavage and charcoal administration . Monitor the respiratory , cardiac , liver and the Central Nervous System functions particularly the liver enzymes . Recovery is normally spontaneous. Further advice is available from; Aventis CropScience UK Limited via the emergency telephone number above or from the nearest Poisons Unit.

5. FIRE-FIGHTING MEASURES

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5. FIRE-FIGHTING MEASURES (continued)

Extinguishing Media	Product is combustible. If product is involved in a fire, use waterspray, foam, dry powder, carbon dioxide or sand.
Unsuitable Extinguishing Media	None.
Special Exposure Hazards	May give off toxic fumes if burnt.
Protective Equipment for Fire-Fighting	Do not breathe fumes. Wear self contained breathing apparatus.
Fire Fighting Guidance	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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	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 Section 8.
Environmental Precautions	Keep people and animals away. Prevent entry into drains, sewers and watercourses. In the UK if spillage enters drains leading to sewage works inform local water company plc immediately. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060). Overseas, inform the appropriate authority immediately.
Spillages	Contain/absorb spillage in sand/earth or in a suitable inert material. Transfer collected material to heavy duty plastic drums and keep safe for disposal.
Note	Check also for any local site procedures in force.

7. HANDLING AND STORAGE

Handling	No specific precautions required when handling unopened containers; follow any relevant manual handling guidance. Refer to Section 8 if exposure to product is possible. Wash thoroughly with soap and water after handling and before eating, drinking or smoking.
Storage	Store in original packs/containers in a dry secure area designated for pesticides with access for authorised staff only. Store away from seeds, fertilizers and animal feedstuffs.
Technical Storage Measures	Protect from frost.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	
1. Product	None assigned.
Engineering Control Measures	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.
Respiratory Protection	None required when handling the product.
Hand Protection	Wear chemical resistant PVC or nitrile gloves.
Eye Protection	Wear safety goggles with unperforated side shield or goggles (conforming to BS EN 166 or BS 2092 for older goggles).
Other	Wear PVC or chemical resistant disposable overalls and PVC boots.
Other Information	If feasible, decontaminate protective clothing before removal. Where decontamination is not feasible (before or after removal) dispose of as contaminated waste.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	Off-white.

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9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Odour	Characteristic.
pH	No data.
Boiling Range/Point (deg C)	Not determined.
Melting Point/Freezing Point (deg C)	Not determined.
Flash Point (deg C)	Exceeds 100.
Explosion Limits (%)	None.
Solubility in Water	Miscible.
Vapour Pressure	Not determined.
Density (g/ml)	0.98 at 20 °C.
Flammability	Combustible.
Auto-flammability (deg C)	Not determined.
Explosive Properties	No data.
Oxidising Properties	None.
Vapour Density (Air = 1)	Not determined.
Dust Explosion Data	Not applicable
Summary/Other Data	A combustible liquid.

10. STABILITY AND REACTIVITY

Stability	Stable at ambient conditions.
Conditions to Avoid	None.
Materials to Avoid	None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Inhalation	Low toxicity.
Skin and Eye Contact	Low toxicity; rat dermal LD50 > 4000 mg/kg. Irritating to rabbit eyes. Slight and reversible irritant to rabbit skin (labelling not indicated). May cause sensitisation by skin contact.
Ingestion	Harmful if swallowed; rat oral LD50 621 mg/kg.
Carcinogenicity	Data given in this section are for the active ingredient: Evidence of non-genotoxic effects not relevant to man.
Genotoxicity	Data given in this section are for the active ingredient: Negative in a battery of genotoxicity tests.
Reproductive Toxicity	Data given in this section are for the active ingredient: 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.

12. ECOLOGICAL INFORMATION

Mobility	Data given in this section are for the active ingredient: Immobile in soil.
Persistence/Degradability	Data given in this section are for the active ingredient: Soil DT50 200 days (pH 7.0). Water DT50 21.9 days (pH 7.0). Photolysis DT50 92.4 days (290 to 360 nm). Sediment/Water System DT50 12 to 15 days. BOD/COD = 1.29 mgO ₂ /l.
Bio-accumulation	Data given in this section are for the active ingredient: Log Pow = 3.24.

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12. ECOLOGICAL INFORMATION (continued)

Aquatic Toxicity	Data given in this section are for the active ingredient: 96 hr LC50 rainbow trout 1.9 mg/l carp 1.9 mg/l 48 hr EC50 daphnia > 5 mg/l 72 hr EbC50 algae 0.014 mg/l
Other Toxicity	Data given in this section are for the active ingredient: Acute oral LD50 duck > 2000 mg/kg, LC50 quail 4392 mg/kg. Low toxicity to the following species; bees , earthworms & other beneficial insects


13. DISPOSAL CONSIDERATIONS

Product Disposal	Disposal of product would usually be by incineration in an appropriately licensed commercial incinerator. Small quantities may be accepted in licensed landfill sites. Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK). In the UK disposal arrangements should be in accordance with the Duty of Care Regulations and, where applicable, with the Special Waste Regulations.
Container Disposal	Lightly contaminated packaging may be acceptable for landfill, otherwise incineration will be required. See above for advice.

14. TRANSPORT INFORMATION

UN Number	3082
UN Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s. (contains fluquinconazole 10.2 %)
UN Class	9
UN Packaging Group	III
ADR/RID - Description	3082, Environmentally hazardous substance, liquid, n. o. s (contains phosphonate), 9, 11*(c), ADR
CDG(CPL) - Description	3082, Environmentally hazardous substance, liquid, n.o.s (contains phosphonate), Class: 9. Hazard Identification Number: 90. Packing Group: III.
IMDG - Proper Shipping Name	As for UN
IMDG - Ems Number	None.
IMDG - MFAG Table Number	None.
ICAO - Proper Shipping Name	As for UN.

15. REGULATORY INFORMATION

Risk symbol	 Harmful
Hazard Classification	Xn - Harmful
Designated Name	Flamenco (contains fluquinconazole 100 g/l)
R phrases	22-Harmful if swallowed. 36-Irritating to eyes. 43-May cause sensitisation by skin contact.
S phrases	26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 36/37-Wear suitable protective clothing and gloves. 45-In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Control of Pesticides Regulations 1986: Precautions	WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate. WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when maintaining/adjusting equipment or

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15. REGULATORY INFORMATION (continued)

handling contaminated surfaces.
DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container.
DO NOT RE-USE THIS CONTAINER for any purpose.
AVOID ALL CONTACT WITH SKIN AND EYES.
IN THE CASE OF CONTACT WITH EYES RINSE IMMEDIATELY with plenty of water.
IF YOU FEEL UNWELL, seek medical advice (show the leaflet where possible).
WHEN USING DO NOT EAT, DRINK OR SMOKE.
KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.
KEEP OUT OF REACH OF CHILDREN.
RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

16. OTHER INFORMATION

MSDS first issued	22 November 1996
MSDS data revised	27 July 2000
Revisions Highlighted	Container Disposal UN Number UN Proper Shipping Name UN Class UN Packaging Group ADR/RID - Description IMDG - Proper Shipping Name ICAO - Proper Shipping Name CDG(CPL) - Description Control of Pesticides Regulations 1986: Precautions
Footnote	This Safety Data Sheet was prepared in compliance with Commission Directive 93/112/EC, 67/548/EEC and 88/379/EEC as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

Disclaimer

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the substance or product for which purposes the substance or product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.
