

# SAFETY DATA SHEET

## ROVRAL GREEN

2363 1.00 GB Current 15.12.2000

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

<b>Trade Name</b>	ROVRAL GREEN
<b>Product (Specification) Code</b>	2363
<b>Aventis CropScience Product Code</b>	None known.
<b>Usage</b>	Suspension Concentrate (water based) Fungicide
<b>Appearance</b>	Flowable green liquid suspension
<b>Manufacturer/Supplier</b>	Bayer Environmental Science
<b>Address</b>	Durkan House 214-224 High Street Waltham Cross Hertfordshire EN8 7DP
<b>Phone Number</b>	01992 784270
<b>Fax Number</b>	01992 784276
<b>Emergency Phone Number</b>	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. Iprodione	36734-19-7	25.00	R48/22, R50/53	Xn, N
2. Polyarylphenyl ether phonate phosphate	90093-37-1	1.00 < 5.00	R36	Xi

### 3. HAZARDS IDENTIFICATION

<b>Main Hazards</b>	Harmful in contact with skin.
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### 4. FIRST-AID MEASURES

<b>Eyes</b>	Rinse immediately with clean water for at least 15 minutes and obtain medical aid.
<b>Skin</b>	Carefully remove contaminated clothing. Wash affected area with soap and water. Seek medical aid if at all worried.
<b>Ingestion</b>	Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.
<b>Inhalation</b>	If inhaled, remove to fresh air and keep at rest. Obtain medical aid if at all worried.
<b>Advice to Physicians</b>	Brief Summary of Symptoms and Signs: Local Contamination: No symptoms reported. Systemic Poisoning: No symptoms reported. Treatment: Local Contamination: Symptomatic after decontamination. Systemic Poisoning: Initial treatment should be symptomatic and supportive. There is no specific antidote. Further advice is available from; Bayer Environmental Science via the emergency telephone number above or from the nearest Poisons Unit.

### 5. FIRE-FIGHTING MEASURES

<b>Extinguishing Media</b>	Product is not combustible. If material is involved in a fire use waterspray, foam, dry powder or carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	None.
<b>Special Exposure Hazards</b>	May give off toxic fumes if heated to decomposition.
<b>Protective Equipment for Fire-Fighting</b>	Do not breathe fumes. Wear self contained breathing apparatus.

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### 5. FIRE-FIGHTING MEASURES (continued)

<b>Fire Fighting Guidance</b>	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.
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### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	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.
<b>Environmental Precautions</b>	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.
<b>Spillages</b>	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.
<b>Note</b>	Check also for any local site procedures in force.

### 7. HANDLING AND STORAGE

<b>Handling</b>	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.
<b>Storage</b>	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.
<b>Technical Storage Measures</b>	No special measures required.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Standards</b>	
<b>1. Product</b>	None assigned.
<b>Engineering Control Measures</b>	Refer to any applicable COSHH assessments. Engineering controls should be used where practicable in preference to personal protection.
<b>Respiratory Protection</b>	None required when handling the product.
<b>Hand Protection</b>	Wear chemical resistant PVC or nitrile gloves.
<b>Eye Protection</b>	Wear safety goggles with unperforated side shield or goggles (conforming to BS EN 166 or BS 2092 for older goggles).
<b>Other</b>	Wear PVC or chemical resistant disposable overalls and PVC boots.
<b>Other Information</b>	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

<b>Physical State</b>	Liquid.
<b>Colour</b>	Green.
<b>Odour</b>	No data.
<b>pH</b>	3.0 to 5.0 at 1% w/w in water.
<b>Boiling Range/Point (deg C)</b>	Not determined.
<b>Melting Point/Freezing Point (deg C)</b>	Not determined.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Flash Point (deg C)	Non-combustible.
Explosion Limits (%)	Not applicable
Solubility in Water	Miscible.
Vapour Pressure	No data.
Density (g/ml)	1.02 at 20 °C.
Flammability	Not combustible
Auto-flammability (deg C)	Not applicable
Explosive Properties	None.
Oxidising Properties	None.
Vapour Density (Air = 1)	As for water
Dust Explosion Data	Not applicable
Summary/Other Data	A non-combustible liquid.

### 10. STABILITY AND REACTIVITY

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

### 11. TOXICOLOGICAL INFORMATION

Inhalation	Expected to be of low inhalational toxicity.
Skin and Eye Contact	Harmful in contact with skin; rat dermal LD50 > 2000 mg/kg. Not irritating to rabbit eyes or skin. Negative in a guinea pig skin sensitisation test.
Ingestion	Low toxicity; rat oral LD50 > 2000 mg/kg.
Carcinogenicity	No data.
Genotoxicity	Data given in this section are for the active ingredient: Not mutagenic in the Ames assay.
Reproductive Toxicity	No data.

### 12. ECOLOGICAL INFORMATION

Mobility	No data.
Persistence/Degradability	Data given in this section are for the active ingredient: Rapidly metabolised in soil. Soil DT50 20 to 80 days (laboratory) . Soil DT50 20 to 160 days (field) . Rate of degradation in soil increases with successive treatments, hence accumulation does not occur. Water DT50 1 to 7 days (pH 7.0), < 1 hour (pH 9.0).
Bio-accumulation	Data given in this section are for the active ingredient: Log P = 3.0 (pH 3.0 and 5.0).
Aquatic Toxicity	Data given in this section are for the active ingredient: 96 hr LC50 rainbow trout 4.1 mg/l, bluegill sunfish 3.7 mg/l, 48 hr EC50 daphnia 0.25 mg/l, 72 hr EC50 algae 7.4 mg/l.
Other Toxicity	Data given in this section are for the active ingredient: Acute oral LD50 mallard duck > 10400 mg/kg, bobwhite quail > 2000 mg/kg. Low toxicity to the following species; bees , earthworms and other beneficial insects .

### 13. DISPOSAL CONSIDERATIONS

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### 13. DISPOSAL CONSIDERATIONS (continued)

<b>Product Disposal</b>	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.
<b>Container Disposal</b>	Lightly contaminated packaging may be acceptable for landfill, otherwise incineration will be required. See above for advice.

### 14. TRANSPORT INFORMATION

<b>UN Number</b>	3082
<b>UN Proper Shipping Name</b>	Environmentally hazardous substances, liquid, n.o.s. (contains iprodione 25.0 %)
<b>UN Class</b>	9
<b>UN Packaging Group</b>	III
<b>ADR/RID - Description</b>	3082, Environmentally hazardous substance, liquid, n. o. s (contains iprodione 25.0 %), 9, 11*(c), ADR
<b>CDG(CPL) - Description</b>	3082, Environmentally hazardous substance, liquid, n.o.s (contains iprodione 25.0 %). Class: 9. Hazard Identification Number: 90. Packing Group: III.
<b>IMDG - Proper Shipping Name</b>	As for UN + marine pollutant symbol used where appropriate.
<b>IMDG - Ems Number</b>	None.
<b>IMDG - MFAG Table Number</b>	None.
<b>ICAO - Proper Shipping Name</b>	As for UN.

### 15. REGULATORY INFORMATION

<b>Risk symbol</b>	<input type="checkbox"/> None
<b>Hazard Classification</b>	Not classified
<b>Designated Name</b>	Rovral Green (contains iprodione 255 g/l )
<b>R phrases</b>	Not classified
<b>S phrases</b>	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).
<b>Control of Pesticides Regulations 1986: Precautions</b>	WEAR PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate TAKE OFF immediately heavily contaminated clothing. WHEN USING DO NOT EAT, DRINK OR SMOKE. WASH SPLASHES OF CONCENTRATE from skin and eyes immediately. WASH HANDS before meals and after work. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. KEEP OUT OF REACH OF CHILDREN. HARMFUL TO FISH OR OTHER AQUATIC LIFE. Do not contaminate surface waters or ditches with chemical or used container. KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place. WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely. DO NOT RE-USE THIS CONTAINER.

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### 15. REGULATORY INFORMATION (continued)

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<b>Note</b>	The labelling information above is that which has been approved under 'The Control of Pesticide Regulations 1986' and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'. If you require any further clarification please contact Bayer Environmental Science via the phone number quoted elsewhere in this 'Safety Data Sheet'.
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### 16. OTHER INFORMATION

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<b>MSDS first issued</b>	15 December 2000
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<b>MSDS data revised</b>	
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<b>Footnote</b>	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.
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**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.

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