

ROVRAL WG**C0323-C0148-UK**

Xn : Harmful

N : Dangerous for
the environment9 : Miscellaneous
dangerous substances
and articles.**1. Identification of the product and the company**

Name	ROVRAL WG.
Chemical description active ingredient(s)	: Iprodione : 3-(3,5-dichlorophenyl)-N-isopropyl-2,4-dioxoimidazolidine-1-carboxamide (IUPAC)
Chemical formula	: C13 H13 Cl2 N3 O3
Chemical family	: Dicarboximide
GCPF code	: WG (Water dispersable granules)
Company identification	: CERTIS UK
	1b Mills Way Boscombe Down Business Park, Amesbury Wiltshire. SP4 7RX United Kingdom Telephone 1980 676500 Fax 1980 626555 E-mail: certis@certiseurope.co.uk
Use	: Agriculture / Horticultural Fungicide
Anti-poison center - Tel.	: For advice on medical emergencies, fires, spillages or chemical hazards ONLY - phone 0870 190 6777. For further advice for medical professionals - The National Poisons Information Service: Tel: 0870 600 6266 (UK only) or Dublin Tel: 00353 1379 964/379966. For further advice for veterinary surgeons: 020 7635 919. Certis Carechem24 multilingual 24 hours emergency number : +44 (0) 870 190 6777
Print date	: 3 / 8 / 2010

2. Hazards identification

Physical/chemical hazards	: The data available does not support any physical or chemical hazard.
Human health hazards	: Limited evidence of a carcinogenic effect.
Environmental hazard	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Information on ingredients

Substance/preparation	: Preparation
Other information	: This product is harmful. See chapter 16 for full text of R phrases
Composition	: Below mentioned are the active ingredient(s) in the formulation as well as the classified component(s).

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3. Information on ingredients (continued)

Substance name	Value(s)	CAS nr	EINECS nr	EC index	CERTIFICATE
Iprodione	: 75 % w/w	36734-19-7	253-178-9	-	R40 N; R50-53
Adjuvant	: < 5 %	1322-93-6	215-343-3	-	Xn; R20 Xi; R36/37
Adjuvant	: 10 - 20 %	-----	-----	-----	Xi; R36

4. First aid measures

General	: In the event of any complaints or symptoms, avoid further exposure. If victim feels unwell, seek medical advice. Take to hospital when necessary
First-aid measures	
First aid general	: Remove soiled clothing. Allow the victim to rest. Wear suitable protective clothing.
- Inhalation	: Allow the victim to rest. Remove victim to fresh air.
- Ingestion	: Do not induce vomiting. Wash out mouth with plenty of water. Seek medical attention immediately.
- Skin contact	: Remove contaminated clothing and shoes. Rinse immediately with plenty of water. Wash skin thoroughly with water and soap.
- Eye contact	: Rinse immediately with plenty of water. After 1 - 2 initial minutes remove contact lenses if present. Rinse again with plenty of water. Continue to rinse with the eyelid wide open for at least 15 minutes. Obtain medical attention when necessary.
Protection of first aiders	: Avoid exposure. Wear suitable protection.
Note to physician	: Active ingredient : Iprodione Chemical family : dicarboximide Product is of low toxicity Treat symptomatically. If a small amount is swallowed: Administer an aqueous slurry of activated charcoal. (30 g/ 100 ml water) If a larger quantity is swallowed: perform gastric lavage. If patient is suffering from convulsions treat with diazepam.
Emergency medical treatment	: When unconscious: lay down in recovery position. Give artificial respiration.

5. Fire - fighting measures

Extinguishing media	: Foam. Water fog. Dry chemical powder. Carbon dioxide.
Unsuitable extinguishing media	: Jet of water.
Hazardous thermal (de)composition products	: Burning may produce: Carbon monoxide , Carbon dioxide , Hydrogen chloride , Nitrogen oxides . Avoid smoke inhalation.
Special procedures	: Move containers away from fire areas if it can be done without risk. If possible to remove containers from fire zone, cool them with water spray. Exercise caution when fighting any chemical fire. Notify fire brigade and environmental authorities. Do not discharge extinguishing waters into the environment. Use water spray/fog for cooling of containers.
Protection of fire fighters	: Wear suitable protective clothing. Self contained breathing apparatus.
Other information	: Dispose of fire debris and contaminated water as advised in DEFRA " Code of Practise for the safe use of pesticides on farms and holdings ".

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- Personal precautions** : See Heading 8.
- Environmental precautions** : Prevent entry to sewers and public waters.
Inform local water Company if spillage enters drains and the Environment Agency (England and Wales), the Scottish Environmental Protection Agency (Scotland) or the Environmental and Heritage Service (Northern Ireland) if it enters surface or ground waters. Evacuate and limit access.
- After spillage and/or leakage** : Remove as chemical waste, according to national or local legislation. It is recommended to wear personal protective equipment (PPE). Prevent dispersion. Sweep or shovel spills into appropriate containers for disposal. Use much water to clean the floor. Remove as chemical waste, according to national or local legislation.

7. Handling and storage

- Handling** : No special measures required. Avoid contact with skin and eyes. When using, do not eat, drink or smoke.
- Technical protective measures** : Fire extinguishers should be kept at hand.
- Storage** : Store in a frost-free, dry, area. Store in area below 40 degrees Celsius. Keep away from food, drink and animal feeding stuffs. Take precautionary measures against static discharges. Product dust may cause explosion hazard.
- Storage away from** : Sources of ignition.

8. Exposure controls / personal protection

- Occupational Exposure Limits** : No occupational exposures limits have been established.
- Personal protection** : Wear suitable protective clothing and gloves.
- Skin protection** : The wearing of other personal protective equipment may be required to supplement the items listed under.
These are described in DEFRA " Pesticides of Practise for the safe use of pesticides on farms and holdings ".
Decontaminate all personal protective equipment after use. When this is not possible dispose of as contaminated wastes.
- Hand protection** : However, the use of gloves when handling the concentrate is advised. In test with a range of pesticides products, protective gloves made of nitrile rubber at least 0.5 mm thick and 300 mm long have been found to be the most suitable. Gloves made of viton, butyl rubber, neoprene and PVC can also offer good protection.
Gloves must protect the whole hand and wrist and should be thoroughly washed after each operation.
- Ingestion** : Wash hands and other exposed areas with soap and water before leaving work.
When using, do not eat, drink or smoke.
- Other information** : Use original packaging.
Do not re-use empty containers.
- Managing environmental exposure** : Do not contaminate water with the product or its container. Do not clean application equipment near surface water / Avoid contamination via drains.
This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme.
Before each spraying operation from a horizontal boom sprayer or broadcast air-assisted sprayer, either a LERAP must be carried out in accordance with PSD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.
DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static flowing waterbody, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within

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1 m of the top of a ditch which is dry at the time of application. Aim spray away from water. DO NOT ALLOW DIRECT SPRAY from broadcast air-assisted sprayers for use on raspberry to fall within 15 m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 5 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

9. Physical and chemical properties

Appearance	: WG : Water dispersible granule
Physical state	: Granular solid.
Colour	: Whitish-grey.
Odour	: Odourless.
pH value	: 9.8 (at 10 g/l 24 °C)
Density [kg/mE3]	: 640
Solubility in water	: Dispersible
Self-ignition [°C]	: No self-ignition
Flash point [°C]	: Not applicable.
Melting point [°C]	: No data available.
Decomposition temp. [°C]	: No data available.
Henry Constante	: No data available.
Minimum Ignition Energy	: 30 - 100 mJ
Log P octanol / water at 20°C	: No data available.

10. Stability and reactivity

Stability	: Stable under normal circumstances.
Hazardous decomposition products	: None under normal conditions.
Hazardous reactions	: None under normal conditions.
Materials to avoid	: None.

11. Toxicological information

On product	
Rat oral LD50 [mg/kg]	: > 2000
Dermal (rat) LD50 [mg/kg]	: > 2000
Rat inhalation LC50 [mg/l/4h]	: > 5.16
Eye irritation	: Irritant to eyes.
Sensitization	: No sensitization.

12. Ecological information

Ecotoxicity	
96 H-LC50 - Rainbow trout [mg/l]	: 35
48 Hour-EC50 - Daphnia magna [mg/l]	: 0.4
IC50-72H-Algae mg/l	: 9.1

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- Waste-disposal procedures** : Remove according to national or local legislation
- Waste of residues** : Remove according to national or local legislation
Advice for the disposal or re-use of diluted pesticide is given in DEFRA publication " Code of practise for using plant protection products ".
- Contaminated packaging** : Do not re-use empty containers.
Remove according to national or local legislation
Follow the directions given in the DEFRA publication " Code of practise for using plant protection products ".

14. Transport information

- **UN No.** : 3077
- **Proper shipping name** : Environmentally hazardous substance, solid , n.o.s. (Iprodione 75 %)
- Land transport (ADR/RID)**
- **Class** : 9
- **Packing group** : III
- Sea transport (IMO)**
- **IMDG code** : 9
- **Packing group** : III
- **Proper technical name** : Environmentally hazardous substance, solid , n.o.s. (Iprodione 75 %)
- IMDG-Marine pollution** : Yes
- Air transport**
- **IATA - Class or division** : 9
- **IATA Packing group** : III
- Other** : Environmentally hazardous substance, solid , n.o.s. (Iprodione 75 %)
- Additional information** : This product is subject to The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004 and their amendments.

15. Regulatory information

- EU Regulations** : **This product is approved under the " Plant Protection Regulations 2005 ".**
- EU Classification** : **2005: CHIP3.1**
- Hazard symbol(s)** : Xn Harmful , N Dangerous for the environment
- Warning phrases**
- R Phrase(s)** : R36 : Irritating to eyes.
R40 : Limited evidence of a carcinogenic effect.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Safety phrases**
- S Phrase(s)** : S2 : Keep out of the reach of children.
S23 : Do not breathe the gas, fumes, vapours, spray.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35 : This material and its container must be disposed of in a safe way.
S36/37 : Wear suitable protective clothing and gloves.
S46 : If swallowed seek medical advice immediately and show this container or label.
S51 : Use only in well-ventilated areas.
S57 : Use appropriate container to avoid environmental contamination.

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ROVRAL WG**C0323-C0148-UK****15. Regulatory information (continued)**

Symbol(s) : Harmful.
Dangerous for the environment.

Additional information : The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of this product at work.

16. Other information

Certis code : WA

Explanation of R-phrases used in section 3 : R20 : Harmful by inhalation.
R22 : Harmful if swallowed.
R36 : Irritating to eyes.
R37 : Irritating to respiratory system.
R38 : Irritating to skin.
R40 : Limited evidence of a carcinogenic effect.
R50 : Very toxic to aquatic organisms.
R53 : May cause long-term adverse effects in the aquatic environment.

Sources of key data used : - Material Safety Data Sheets of the producer.
- The Pesticide Manual, 13th ed (ISBN 1 901396 12 6)
- Certis Europe Expert Team (CEET)

Trade name(s) : ROVRAL WG

The contents and format of this MSDS are in accordance with EC Commission Directive 93/112/EEC, 99/45/EC, 2001/58/EC and Reach Regulation 1907/2006.

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