

PRODUCT SAFETY INFORMATION SHEET

BASF

PRODUCT: **ROVRAL FLO**

DATE: 19/02/2004

VERSION: 1

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1. SUBSTANCE/PREPARATION AND COMPANY NAME

Product Name: **ROVRAL FLO**
MAPP Number: 11702
Company: BASF plc
PO Box 4
Earl Road
Cheadle Hulme
Cheadle
Cheshire SK8 6QG

Tel: 0161 485 6222

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Emergency information: 0161 485 6222 (24 hours)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Use: Agricultural/horticultural fungicide.

Formulation: A flowable concentrate containing 255 g/L (25% w/w) iprodione.

<u>Hazardous ingredients</u>	<u>CAS No.</u>	<u>g/l</u>	<u>Symbol</u>	<u>R Phrases</u>
Iprodione	36734-19-7	255	Xn (Harmful) N (Dangerous for the environment)	R40, R50/53

3. HAZARDS IDENTIFICATION



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

LIMITED EVIDENCE OF A CARCINOGENIC EFFECT (R40)
VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM
ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT (R50/53)

4. FIRST AID MEASURES

General advice: If a person thinks that they have been exposed to this product and feels unwell, call a doctor or take them to a hospital. Remove all contaminated clothing. Keep them at REST away from source of contamination. DO NOT ALLOW smoking or eating. First aider should avoid becoming contaminated and wear protective clothing if necessary.

Skin contact: Immediately remove contaminated clothing and footwear and flush skin with plenty of water. Wash affected area thoroughly with soap and water as soon as possible.

4. FIRST AID MEASURES contd.

Ingestion: DO NOT INDUCE VOMITING. Wash out mouth with clean water. Seek medical attention immediately.

Inhalation: Keep person calm, remove to fresh air.

Unconsciousness: If danger of loss of consciousness, place person in recovery position. Apply artificial ventilation if necessary, but care must be taken to avoid contamination of the first aider.

GUIDE TO PHYSICIAN - general advice

Active ingredient group: Iprodione – dicarboximide.

Toxic effects: The material is of low general toxicity.

Symptoms of accidental over exposure: There is no documentation of pathological effects in humans.

Any unusual symptoms which occur after exposure (by any mode of entry) should be recorded and reported to BASF at Cheadle.

- (i) Treatment should be symptomatic and supportive based on judgement of physician.
- (ii) If the product has been swallowed, gastric lavage with proper laryngeal control may be necessary. For ingestion of small quantities activated charcoal as an absorbent in a dosage of 30 grams in 100ml of water may be considered.
- (iii) Maintenance of ventilation and oxygen therapy to be used as required.
- (iv) If symptomatic therapy is indicated for control of restlessness, anxiety or convulsions, then Diazepam is recommended as the drug of choice.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray, foam, water fog, dry chemical, carbon dioxide.

Possible harmful fumes in a fire: Carbon monoxide, carbon dioxide, hydrogen chloride and nitrogen oxides can be released. Avoid breathing smoke and fumes.

Protective equipment: Self-contained breathing apparatus and protective clothing.

Further information: Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

6. ACCIDENTAL RELEASE MEASURES

If spilled: Wear prescribed protective clothing. Clear spillage immediately. Contain spillage and absorb onto earth, sand or suitable absorbent material. Collect contaminated material and place in a marked container for disposal. Thoroughly wash area of spillage. Dispose of contaminated materials as advised in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

Wash thoroughly immediately after handling spillages, or at once if contaminated.

Personal protective equipment: See Section 8.

Environmental precautions: Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland) or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

7. HANDLING AND STORAGE

Handling: No special measures are necessary. Avoid contact with skin and eyes. When using do not eat, drink or smoke.

Protection against fire and explosion: Incombustible, non-explosive.

Storage: Keep dry and frostproof in a suitable pesticide store. Store separately from food, drink and animal feed.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- (i) SAFETY PRECAUTIONS (from product label)
Precautions marked * a legal requirement

Operator protection

*Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective clothing:

*WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate.

*However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
WASH CONCENTRATE from skin or eyes immediately.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH HANDS before meals and after work.

Environmental protection

*Do not contaminate surface waters or ditches with chemical or used container.

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray-tank and dispose of safely.

Keep dry and frostproof in a suitable pesticide store.

(ii) **PERSONAL PROTECTIVE EQUIPMENT**

In tests with a range of pesticide products, protective gloves made of nitrile rubber at least 0.5mm thick and 300mm 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.

The wearing of other personal protective equipment may be required to supplement the items listed above. These are described in the MAFF/HSE "Pesticides: Code of Practice 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.

(iii) **OCCUPATIONAL EXPOSURE LIMITS (OESs)**

<u>Hazardous ingredients</u>	<u>Long term exposure limit</u>	<u>Short term exposure limit</u>
Not applicable.		

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Form:	Liquid
Colour:	White opaque
pH value:	5 - 6 (undiluted)
Solubility in water	Dispersible

10. **STABILITY AND REACTIVITY**

Hazardous reactions:	No decomposition if stored and applied as directed.
Substances to avoid:	None known.
Hazardous decomposition products:	None if stored and handled correctly.

11. **TOXICOLOGICAL INFORMATION**

Acute toxicity:

Ingestion:	Low toxicity	(LD50 oral (rat): >2000 mg/kg)
Skin contact:	Non irritant	(LD50 dermal (rat): >2000 mg/kg)
Inhalation:	Unlikely to cause a problem	
Eye contact:	Non irritant	
Sensitising:	No sensitising effect	

12. **ECOLOGICAL INFORMATION**

Ecotoxic effects:

Iprodione		
Rainbow trout (<i>Oncorhynchus mykiss</i>) LC50 96h:		4.1 mg/l
Algae EC/LC50 (120 h)		1.9 mg/l
Daphnia EC/LC50 (48h):		0.25 mg/l

13. DISPOSAL CONSIDERATIONS

Leaking containers: Damaged or leaking containers must be dealt with as soon as noticed by sealing them in impermeable containers.

Disposal of used containers: Follow the directions given in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

Used, cleaned, crushed or punctured containers may be burned or buried on farm under controlled conditions, or will generally be accepted at licensed disposal sites.

Disposal of diluted pesticide: Advice for the disposal or re-use of diluted pesticide is given in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

14. TRANSPORT INFORMATION

UN Number : 3082
Packing Group : III

ROAD/RAIL

ADR/RID Class : 9
Environmentally hazardous substance, liquid, N.O.S. (contains iprodione 25%).

SEA

IMDG Class : 9
Environmentally hazardous substance, liquid, N.O.S. (contains iprodione 25%).
Marine Pollutant

AIR

ICAO/IATA Class : 9
Environmentally hazardous substance, liquid, N.O.S. (contains iprodione 25%).
Marine Pollutant

Pack sizes: 5 litres
No per outer: 4

15. REGULATORY INFORMATION

This product is approved under the "Control of Pesticides Regulations 1986" and is labelled accordingly.

R-phrases - see Section 3

S-phrases - see Section 8

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

This product is subject to The Carriage of Dangerous Goods by Road Regulations, The Carriage of Dangerous Goods by Rail Regulations and The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations and amendments (United Kingdom).

16. **OTHER INFORMATION**

For further medical advice Doctors should contact the National Poisons Information Service.

In an emergency further information can be obtained from the National Chemical Emergency Centre 01865 407 333 (24 hours).

A backslash in the left hand margin indicates an amendment from the previous version.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.
