

Bayer Environmental Science
Material Safety Data Sheet
Chipco® Rovral® GT Fungicide



Version / AUS
102000018422

Revision Date: 30.11.2011

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **Chipco® Rovral® GT Fungicide**
Other names: None
Product code (UVP): 06070434
Recommended use: Fungicide

Chemical formulation: Suspension concentrate (=flowable concentrate)(SC)

Company: Bayer Environmental Science
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SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

HAZARDOUS SUBSTANCE	DANGEROUS GOODS
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Hazardous classification:	Hazardous (National Occupational Health and Safety Commission - NOHSC).
R-phrases(s):	R40 - Limited evidence of a carcinogenic effect. R43 - May cause sensitization by skin contact. R50/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrases(s):	See sections 4, 5, 6, 7, 8, 10, 13.
ADG Classification:	Not a "Dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. For transport by sea, Chipco Rovral GT Fungicide is a MARINE POLLUTANT. See Section 14.
SUSMP classification (Poison Schedule):	Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature: Iprodione 250 g/L, Liquid Hydrocarbons 331 g/L

Chemical Name	CAS-No.	Concentration [%]
Iprodione	36734-19-7	25.31
Distillates (petroleum), solvent-dewaxed	64742-56-9	32.49

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light paraffinic		
1,2-Propanediol	57-55-6	4.95
1,2-Benzisothiazol-3(2H)-one	2634-33-5	0.06
Other ingredients (non-hazardous) to 100 %		

SECTION 4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (telephone 13 11 26), and follow the advice given. Show this Material Safety Data Sheet to the doctor.

Inhalation

Move the victim to fresh air and keep at rest. If symptoms persist, call a physician.

Skin contact

Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation or redness persists, see an ophthalmologist.

Ingestion

Rinse mouth. Do NOT induce vomiting. If symptoms persist, call a physician. Never give anything by mouth to an unconscious person.

Notes to physician

Symptoms

Nausea, vomiting, abdominal pain, loss of balance, pulmonary oedema.

Treatment

There is no specific antidote.

Treat symptomatically.

Watch for pulmonary edema, which may develop in serious cases of poisoning even after 24-48 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray
Carbon dioxide (CO₂)
Foam
Dry powder

Hazards from combustion products

In the event of fire the following may be released:

Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
Chlorine



Precautions for fire-fighting

- Wear self-contained breathing apparatus and protective suit.
- Do not allow run-off from fire fighting to enter drains or water courses.
- Cool closed containers exposed to fire with water spray.
- Whenever possible, contain fire-fighting water by diking area with sand or earth.

Hazchem Code •3Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

- An emergency shower must be readily accessible to the work area.
- Remove all sources of ignition.
- Avoid contact with spilled product or contaminated surfaces.
- When dealing with a spillage do not eat, drink or smoke.
- Use personal protective equipment.

Environmental precautions

- Contain contaminated water and fire fighting water.
- If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 7. HANDLING AND STORAGE

Handling

- Hygiene measures:
- Avoid contact with skin, eyes and clothing.

Storage

- Requirements for storage areas and containers:
- Keep out of the reach of children.
 - Keep containers tightly closed in a dry, cool and well-ventilated place.
 - Keep away from direct sunlight.
 - Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed.
 - Protect from frost.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Control parameters	Update	Basis
Iprodione	36734-19-7	2 mg/m ³ (TWA)		OES BCS
Hydrocarbon solvent (oil mists)		5 mg/m ³ (TWA) (8 hour)		NOHSC

For further details on the Occupational Exposure Standards, see Section 16.

Biological limit values: None

Personal protective equipment - End user

- Respiratory protection: No personal respiratory protective equipment normally required.
Wear an approved respirator suitable for organic vapour/mist if

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	exposure to vapours or mists is likely or ventilation is inadequate.
Hand protection:	No personal hand protection equipment normally required. Elbow-length PVC or nitrile gloves is, however, recommended.
Eye protection:	No personal eye protection normally required. Goggles is, however, recommended..
Skin and body protection	No personal skin and body protection normally required. Cotton overall buttoned to the neck and wrist and washable hat are, however, recommended.

Engineering Controls

Advice on safe handling:

Use only in area provided with appropriate exhaust ventilation.
Avoid contact with skin, eyes and clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:	Lliquid
Colour:	White
Odour:	No data available

Safety data

pH:	2.0 - 4.0
Flash point:	No data available
Ignition temperature:	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	ca. 1.08 g/cm ³ at 20 °C
Water solubility:	No data available
Partition coefficient: n-octanol/water:	No data available

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid:	Extremes of temperature and direct sunlight.
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Materials to avoid:	Strong acids Strong bases Strong oxidizing agents Alkali metals
Hazardous decomposition products:	Thermal decomposition can lead to release of: Carbon oxides Nitrogen oxides (NO _x) Chlorine

SECTION 11. TOXICOLOGICAL INFORMATION

Potential health effects

Inhalation:	May cause irritation of the mucous membranes.
Skin:	Low acute dermal toxicity. Avoid contact with skin.
Eye:	May cause eye irritation.
Ingestion:	Ingestion of large amounts may be harmful.
Acute oral toxicity:	LD ₅₀ (rat) > 3,500 mg/kg The value mentioned relates to the active ingredient iprodione.
Acute inhalation toxicity:	LC ₅₀ (rat) > 5.16 mg/L Exposure time: 4 h The value mentioned relates to the active ingredient iprodione.
Acute dermal toxicity:	LD ₅₀ (rat) > 2,500 mg/kg The value mentioned relates to the active ingredient iprodione.
Skin irritation:	No skin irritation (rabbit). The value mentioned relates to the active ingredient iprodione.
Eye irritation:	Slight irritation (rabbit). The value mentioned relates to the active ingredient iprodione.
Sensitisation:	Non-sensitizing (guinea pig). The value mentioned relates to the active ingredient iprodione.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish:	LC ₅₀ (<i>Oncorhynchus mykiss</i> (rainbow trout)) 4.1 mg/L Exposure time: 69 h The value mentioned relates to the active ingredient iprodione.
Toxicity to aquatic invertebrates	EC ₅₀ (<i>Daphnia</i>) 0.25 mg/L Exposure time: 48 h The value mentioned relates to the active ingredient iprodione.



Toxicity to aquatic plants IC₅₀ (*Scenedesmus subspicatus* (Algae)) 15.3 mg/L
Exposure time: 72 h
The value mentioned relates to the active ingredient iprodione.

SECTION 13. DISPOSAL CONSIDERATIONS

Metal drums and plastic containers

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm 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.

SECTION 14. TRANSPORT INFORMATION

ADG

UN-Number: **3082**
Class: 9
Subsidiary Risk: None
Packaging group: III
Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IPRODIONE SOLUTION)
Hazchem Code: •3Z

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

IMDG

UN-Number: **3082**
Class: 9
Subsidiary Risk: None
Packaging group: III
EmS: F-A , S-F
Marine pollutant: YES
Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IPRODIONE SOLUTION)

IATA

UN-Number: **3082**
Class: 9
Subsidiary Risk: None
Packaging group: III
Environm. Hazardous Mark: YES
Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IPRODIONE SOLUTION)

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SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994.

Australian Pesticides and Veterinary Medicines Authority approval number: 50954.

See also Section 2.

SECTION 16. OTHER INFORMATION

Trademark information

Chipco® is registered trademark of Bayer.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

Further details on the Occupational Exposure Standards mentioned in Section 8:

CEILING: Ceiling Limit Value

OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL.

SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure.

TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

END OF MSDS