



## MATERIAL SAFETY DATA SHEET

### Manufacturer/information service:

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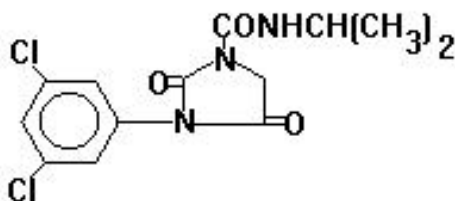
### 1. Chemical Product Identification

Product Name: Iprodione

Molecular Formula:  $C_{13}H_{13}Cl_2N_3O_3$

Molecular Weight: 330.17

Structural Formula:



Chemical Name:

3-(3,5-dichlorophenyl)-N-isopropyl-2,4-dioximidazolidine-1-carboxamide

Form: crystal

Color: colorless

Odor: odorless

CAS No.: 36734-19-7

UN NO.:3077

### 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Iprodione	36734-19-7	97.0
Other ingredients		3.0



### 3. Hazards Identification

Hazards designation: Hazardous according to criteria of Worksafe Australia

Risk phrases: R40 – Possible risk of irreversible effects

Safety phrases: Not applicable

ADG classification: This product is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

SUSDP classification: Exempt

### 4. First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest. Seek medical advice if symptoms are experienced.

Skin contact: Carefully remove contaminated clothing. Wash affected areas with plenty of soap and water. Seek medical aid if symptoms are experienced.

Eye contact: Immediately irrigate with copious quantities of water for at least 15 minutes. Seek medical assistance as above.

Ingestion: Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice as above. Do not attempt to give anything by mouth to a semi-conscious or unconscious person.

First Aid Facilities: Ensure washing facilities are available, including eye-wash.

Symptoms: Symptoms include nausea, vomiting, abdominal pain and loss of coordination.

Medical attention: No specific antidote known. Treat symptoms after decontamination.

### 5. Fire-Fighting Measures

Extinguishing media:

Extinguish fire using: Waterspray, Carbon Dioxide, Foam, Dry agent .

Hazards from combustion products: Toxic compounds of carbon, nitrogen and chlorine may be given off when exposed to extreme heat or fire.

Precautions for fire fighters: Firefighters should wear full protective gear, including self-contained breathing apparatus. If possible and without risk, remove intact containers from exposure to fire. Otherwise, spray unopened containers with water to keep cool.

Contain fire-fighting water by bunding area with sand or earth to prevent it entering any bodies of water.



## 6. Accidental Release Measures

Dealing with spills and disposals may result in the potential for increased personal exposure. Protective clothing and equipment as described in the personal protection section above should be worn. Avoid contact with spilled material or contaminated surfaces. Contain spill and absorb with earth, sand, clay, or other absorbent material. Sweep up and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. Keep people away. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority. Neutralising chemicals are not needed.

## 7. Handling And Storage

Handling: Keep out of reach of children. Avoid contact with the eyes and skin.

Storage: Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, animal feed, seed and fertilisers. Protect from frost.

## 8. Exposure Controls/Personal Protection

Exposure standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission for the product or its ingredients. The Permissible Exposure limit for iprodione set by Bayer CropScience in manufacturing/formulation plants is 2 mg/m<sup>3</sup>.

Engineering controls: Control process conditions to avoid contact. Use local exhaust ventilation during manufacture. Use in a well-ventilated area only.

## 9. Physical and Chemical Properties

Water Solubility: 13 mg/L at 20 °C

Solubility in Other Solvents: v.s. in ethanol, methanol, acetonitrile, toluene, benzene, acetone, and dimethylformamide

Melting Point: 128 °C

Relative density : 1.434 at 20°C

Vapor Pressure: <0.133 mPa at 20°C

Partition Coefficient: 3.1004 at 20°C

Adsorption Coefficient: 700



## 10. Stability and Reactivity

Chemical stability: Stable under normal conditions of use.

Hazardous polymerisation: No information available

Conditions to avoid: Extreme heat.

Incompatible materials: Avoid strong acids, bases, and strong oxidising agents. Incompatible with strong alkalis

Hazardous decomposition products: Toxic compounds of carbon, nitrogen and chlorine may be given off when exposed to extreme heat or fire.

## 11. Toxicological Information

Acute oral LD50 for rat: >2000 a.i.mg/kg.

Acute dermal LD50 for rat: >2000 a.i.mg/kg.

Inhalation LC50 (4 h) for rat: >5.16 a.i. mg/L.

Skin irritation: Non- irritating to skin (rabbits).

Eye irritation: Non- irritating to eyes (rabbits).

Skin sensitization: Not a skin sensitiser (guinea pigs).

## 12. Ecological And Ecotoxicological Information

Effect on birds: low toxicity to birds, acute oral LD50 for Bobwhites quail is >2000 a.i. mg/kg. Effect on fish: moderate toxicity to fish, acute 96 hour LC50 for Bluegill sunfish is 3.7 a.i.mg/L.

Effect on aquatic invertebrates: moderate toxicity to aquatic invertebrates, acute 48 hour EC50 for Daphnia magna is 0.66 a.i.mg/L.

Effect on algae: moderate toxicity to algae, acute 72 hour EC50 for Raphidocelis subcapitata is 1.8 a.i.mg/L.

Effect on honeybees: low-moderate toxicity to honeybees, contact acute 48 hour LD50 is >200 a.i.µg/bee, oral acute 48 hour LD50 is >25 a.i.µg/bee.

Effect on earthworms: low toxicity to earthworms, acute 14 day LC50 is >1000 a.i.mg/kg.

## 13. Disposal Considerations

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. Break, crush or puncture and bury empty



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containers in a local authority landfill. If no landfill is available, bury empty containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt. Returnable containers should be taken back to point of supply for refill or storage. Dispose of waste product through a reputable waste contractor.

**14. Transport Information**

Not applicable

**15. Regulatory Information**

Not applicable

**16. Other Information**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.