# SAFETY DATA SHEET

## IPRODIONE 255

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Product Name:** IPRODIONE 255
**Other identifier:** Iprodione (dicarboximide) 255g/L SC
**Pesticide Classification:** Fungicide
**Restrictions on use:** Agriculture

**Supplier**
Enviro Bio-Chem (Pty) Ltd
Co. Reg. No.: 2013/194774/07
44 Kerk Street, Lichtenburg
North West, South Africa 2740

**Registration Holder**
Enviro Crop Protection (Pty) Ltd.
Co. Reg. No.: CK2007/027855/07
44 Kerk Street, Lichtenburg
North West, South Africa 2740

**Telephone:** +27 12 006 0063
**Fax:** 086 541 7948
**Website:** www.envirobiochem.co.za

**24 Hr Emergency Number:** Spillage: 0861 000 366

**In case of Poisoning:**
Griffon Poison Information Centre: +27 82 446 8946
Tygerberg Hospital: (+27 21) 931 6129
Poison Emergency Enquiries: (+27 21) 689 5227

### 2. HAZARD IDENTIFICATION

| UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008 | | |
|---|---|---|
| **Hazard classes** | **Hazard categories** | **Hazard statements** |
| Carcinogenicity | Category 2 | H351 |
| Reproductive Toxicity | Category 2 | H361F |
| Aquatic Toxicity Acute | Category 1 | H400 |
| Aquatic Toxicity Chronic | Category 1 | H410 |

**The most important adverse effects:**
**The most important adverse physiochemical effects:** None Known.
**The most important adverse human health effects:** Suspected of causing cancer. Suspected of damaging fertility.

**Label elements:**

**Signal word:** Warning

**Hazard statements:**
H351: Suspected of causing cancer.
H361f: Suspected of damaging fertility.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with ling lasting effects.

**Precautionary statements:**
P102: Keep out of reach of children.
P103: Read label before use.
P202: Do not handle until all safety precautions have been read and understood.
P273: Avoid release to the environment.
P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P405: Store locked up.
P391: Collect spillage.
P501: Dispose of content/container to suitable landfill in accordance with local regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances/ Mixture**: Mixture

**Composition:**

| Chemical Name | CAS | Conc. (m/m%) | Classification EC 1272/2008 |
|---|---|---|---|
| Iprodione (AI) | 36734-19-7 | 24.8% | Carcinogenicity (Category 2) H351<br>Reproductive Toxicity (Category 2) H361fd<br>Aquatic Acute (Category 1) H400<br>Aquatic Chronic (Category 1) H410 |
| Ethanediol | 15054-86-1 | <3% | Acute Toxicity Oral (Category 4) H302 |
| Nonylphenol | 25154-52-3 | <1% | Skin corrosion (Category 1B) H314<br>Reproductive Toxicity (Category 2) H361fd |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

## 4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure and consult a doctor / poison control centre.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation persists / person feels unwell. Seek medical attention if you feel unwell after inhalation.

**Skin:** Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists / person feels unwell.

**Eyes:** Flush eyes with clean water. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. Seek medical attention if irritation persists.

**Ingestion:** Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water. If swallowed, get emergency medical help immediately.

**Anticipated acute effects:** Non known.

**Anticipated delayed effects:** Suspected of causing cancer. Suspected of damaging fertility.

**Most important symptoms/effects:** When large amounts are swallowed, may cause symptoms such as: nausea, vomiting, abdominal pain and loss of co-ordination.

**Advice to physician:** Treat symptomatically and supportively. No specific antidote known.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide, dry powder, or alcohol-resistant foam for small fires and water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

**Unsuitable Extinguishing Media:** High volume water jet. Use a water jet only to cool heated containers.

**Specific hazards:** Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

**Special Fire Fighting Procedures**: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

**Personal protective equipment:** Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with eyes and skin. Do not breathe in spray mist or fumes/vapours. Do not breathe in spray mist or dust. Ventilate area of spill, especially in contained areas.

**Protective equipment:** Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

**Emergency procedures**: Alert firefighting personnel, evacuate unprotected personnel and animals. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA and full turnout gear. Use an approved/certified respirator or equivalent Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel

**Environmental Precautions:** Prevent spilled product from entering sewers, waterways or ground water. This product is classified as very toxic to aquatic organisms with long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

**Methods and Materials for Containment:** Contain spilled product by diking area with sand or earth. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth.

**Methods and Materials for Clean-up:** Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spilled material. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. See section 13 for disposal considerations.

## 7. HANDLING AND STORAGE

**Handling:**

**Precautions for safe handling:** Read the label before use. Do not handle this until all safety precautions have been read and understood. Use protective clothing. Wash thoroughly after handling. Remove contaminated clothing and wash before reusing. Use adequate ventilation. Avoid direct contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wear full-face mask and eye protection. Do not use spray equipment contaminated with this product for any other purpose unless first thoroughly cleaned with a suitable cleaning detergent. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

**General occupational hygiene:** Handle in accordance with good industrial hygiene and safety practice. Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Wash all clothing before it is re-used.

**Storage:**

**Conditions for safe storage:** Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool and well- ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

**Incompatible substances and mixtures:** Refer to product label.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Exposure Limits:**

No information available.

**Engineering Controls:** It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal Protective Equipment:**

**Respiratory Protection:** For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved air-purifying respirator.

**Hand Protection:** The use of chemically protective gloves is recommended to prevent against skin contact. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

**Eye Protection:** The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

**Skin and Body Protection:** Employee must wear appropriate protective clothing; boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

**Emergency eyewash:** Where there is any possibility that an employee's eyes may be exposed to this substance; the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

**Environmental exposure controls:** Prevent product from entry into sewers and water courses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance** | Liquid |
| **Colour** | Off white |
| **Odour** | No data available |
| **Odour threshold** | No data available |
| **pH** | 4 - 6 |
| **Melting point / freezing point (° C)** | No data available |
| **Boiling point (° C)** | No data available |
| **Flash point (° C)** | No data available |
| **Evaporation rate** | No data available |
| **Flammability** | Non flammable |
| **Upper /lower flammability limits** | No data available |
| **Vapour pressure** | No data available |

| | |
|---|---|
| **Vapour density** | No data available |
| **Relative density (25ºC)** | 1. 1 to 1.2 g/mℓ |
| **Water solubility (g/l) at 20ºC** | Dispersible in water |
| **Partition coefficient: n-octanol/water partition coefficient** | No data available |
| **Auto-ignition temperature (º C)** | No data available |
| **Decomposition temperature (º C)** | No data available |
| **Viscosity, dynamic (mPa s)** | No data available |
| **Explosive properties** | No data available |
| **Oxidising properties** | No data available |
| **Explosive limits** | No data available |

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °Preferably below 30 °C, and not for prolonged periods in direct sunlight.

**Reactivity:** No data available.

**Possibility of Hazardous Reactions:** No hazardous reactions when stored and handled according to prescribed instructions.

**Conditions to Avoid:** Extremes of temperature and direct sunlight.

**Incompatible Materials:** Strong oxidizing agents, acids, bases, combustible materials.

**Hazardous Decomposition Products:** No decomposition products expected under normal conditions of use.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:**

**Calculated according to GHS:**

**Acute Oral $LD_{50}$ (rat):** > 3500 mg/kg

**Acute Dermal $LD_{50}$ (rat):** > 5000 mg/kg

**Acute Inhalation $LC_{50}$ (rat, 4 hr):** > 5 mg/ℓ air.

**Skin Irritation:** Not classified.

**Eye Damage/Irritation:** Not classified.

**Skin Sensitization:** Not classified.

**Respiratory Sensitization:** Not classified.

**Reproductive cell mutagenicity:** Not classified.

**Carcinogenicity:** Suspected of causing cancer.

**Reproductive toxicity:** Suspected of damaging fertility.

**Specific target organ toxicity – single exposure:** Not classified.

**Specific target organ toxicity – repeated exposure:** Not classified.

**Aspiration hazard:** Not classified.

**Chronic Effects (other targets e.g. developmental):** Not classified

## 12. ECOLOGICAL INFORMATION

The product is classified as a marine pollutant.

**ECOTOXICITY DATA:**

**Active ingredient: Iprodione CAS No. 36734-19-7**

| | |
|---|---|
| **Fish** | |
| $LC_{50}$ (96 hr) | 4.1 mg/ℓ (rainbow trout); 3.7 mg/ℓ (bluegill sunfish). |
| **Daphnia** | |
| $LC_{50}$ (48 hr) | 0.66 mg/l |
| **Algae** | |
| Static test $EC_{50}$ (120h) | 1.9 mg/l (*Selenastrum capricornutum*) |
| **Birds** | |
| Acute oral $LD_{50}$ | >2000 mg/kg (bobwhite quail); >10400 mg/kg (mallard ducks) |
| **Bees** | |
| Toxicity to bees $LD_{50}$ (oral) | >100 µg/bee. |
| Toxicity to bees $LD_{50}$ (contact) | >100 µg/bee. |
| **Worms** | |
| $LC_{50}$ (14d) | >1000 mg/kg soil (Earthworms) |

**Biodegradability:** In soil, the compound is rapidly metabolised, with $CO_2$ as a major end product. Laboratory $DT_{50}$ ranges from 20–80 days, while field $DT_{50}$ is about 919 days. Degradation rate increases with successive treatments, so accumulation does not occur.

**Bioaccumulation:** Rate of degradation increase with successive treatments; hence accumulation does not occur.

**Mobility:** With a Koc of 202–543, the compound is slightly to moderately adsorbed in soil, suggesting low to moderate mobility.

**Additional information:** Avoid release to the environment.

## 13. DISPOSAL CONSIDERATION

**Pesticide Disposal:** Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

**Package Product Wastes:** Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is cleaned, reconditioned or destroyed. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

**Ecology - waste materials:** Avoid release to the environment.

## 14. TRANSPORT INFORMATION

| | |
|---|---|
| **UN Number** | 3082 |
| **Road Transport ADR/IRD:** | |
| Class: | 9 |
| Packaging group: | III |
| UN proper Shipping Name: | Environmentally Hazardous Substance; Liquid; N.O.S. (Iprodione 255 g/l) |

**Maritime Transport IMDG/IMO:**

| | |
|---|---|
| Class: | 9 |
| Packaging group: | III |
| UN proper Shipping Name: | Environmentally Hazardous Substance; Liquid; N.O.S. (Iprodione 255 g/l) |

**Marine Pollutant (Y/N):** No

**Air Transport IATA/ICAO:**

| | |
|---|---|
| Class: | 9 |
| Packaging group: | III |
| UN proper Shipping Name: | Environmentally Hazardous Substance; Liquid; N.O.S. (Iprodione 255 g/l) |

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation for the mixture:**

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

**Relevant information regarding restrictions:** None.

**EU regulation:** Regulation EC1272/2008 (EU-GHS/CLP)

**Other national regulations:** National Road Traffic Act, 1996 (ACT NO. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management Waste Act 59 of 2008.Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

**Chemical Safety Assessment carried out?** No

## 16. OTHER INFORMATION

**Note:** Read and understand all the information on the product label before using the product.

**Other hazard statements, abbreviations and explanations:**
**H351:** Suspected of causing cancer.
**H361f:** Suspected of damaging fertility.
**H400:** Very toxic to aquatic life.
**H410:** Very toxic to aquatic life with long lasting effects.

**IATA:** International Air Transport Association.
**IBC:** International Bulk Chemical.
**ICAO:** International Civil Aviation Organization.
**IMDG:** International Maritime Dangerous Goods
**IMO:** International Maritime Organization.
**LD50 value:** The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.
**OEL/RL:** Occupational exposure limit-recommended limit.
**TWA:** Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.
**ST/STEL:** Short-term exposure limits.

**Disclaimer:** The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.
All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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For detailed information on revisions, contact the registration holder.