

SAFETY DATA SHEETS

IPRODIONE 96% TECHNICAL

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SECTION 1: IDENTIFICATION

Product identifier	Iprodione 96% technical
Other means of identification	N/A
Recommended use	Fungicide
Supplier's details	Zhejiang Heben Pesticide & Chemicals Co., Ltd Liandun Road, Houjing, Yanjiang Industrial Area, Wenzhou, Zhejiang, China
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SECTION 2: HAZARDS IDENTIFICATION

2.1 GHS classification of the substance or mixture (Ninth Revised Edition, 2021)

Physical hazards	None	None
Health hazards	Acute toxicity, oral, Category 5	H303
	Acute toxicity, dermal, Category 5	H313
	Acute toxicity, inhalation, Category 5	H333
	Serious eye damage/eye irritation, Category 2B	H320
	Carcinogenicity, Category 2	H351
Environmental hazards	Reproductive toxicity, Category 2	H361
	Hazardous to the aquatic environment, acute hazard, Category 1	H400
	Hazardous to the aquatic environment, long-term hazard, Category 2	H411

2.2 GHS label elements, including precautionary statements

Hazard pictograms



Signal word	Warning
Hazard statement (s)	
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H320	Causes eye irritation.
H333	May be harmful if inhaled.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Prevention statements	
P203	Obtain, read and follow all safety instructions before use.
P264	Wash hands thoroughly after handling.
P265	Do not touch eyes.
P273	Avoid release to the environment.
P280	Wear protective clothing/eye protection
Response statements	
P318	IF exposed or concerned, get medical advice.
P337+P313	If eye irritation persists: Get medical help.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391	Collect spillage.
Storage statements	
P403 + P233	Store in the well-ventilated place, keep container tightly closed.
P405	Store locked up.
Disposal statements	
P501	Dispose of contents/container in accordance with local regulations.

2.3 Other hazards which do not result in classification

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
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Common name, synonyms	Chemical identity	CAS number and other unique identifiers	The concentrations of the ingredients
Iprodione	3-(3,5-dichlorophenyl)-N-isopropyl-2,4-dioxoimidazolidine-1-carboxamide	CAS No.: 36734-19-7 EC No.:253-178-9	96% Min
Other non-hazardous ingredients			< 4%

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary first-aid measures

Skin: Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

Eyes: For eye contamination, flush eyes immediately with water. Irrigate each eye continuously with normal saline during transport.

Inhalation: Move affect person to fresh air and keep at rest until recovered. If not breathing, give artificial respiration and get to a doctor.

Ingestion: Do not induce vomiting if the person is conscious. Give glass of water. Get to a doctor.

4.2 Most important symptoms/effects, acute and delayed

No such information is reported.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

No antidote, no special treatment, please treat it symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Use dry chemical, carbon dioxide, water spray, and foam.

5.2 Specific hazards arising from the chemical

May produce toxic fumes of nitrogen oxides, carbon dioxide and carbon monoxide if burn.

5.3 Special protective equipment for firefighters

Should wear full-protective clothing, and self-contained breathing apparatus. Fight fire from safe distance and protected location. Avoid (reject) fire-fighting water to enter environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear full protective clothing and self-contained breathing apparatus. Control the spill at its source. Dike area and absorb small spills with materials such as sand, sawdust, Zorb all, or dirt and place in suitable containers for recovery or disposal. Remove all contaminated clothing promptly and wash exposed body areas thoroughly with soap and water immediately after handling. Thoroughly launder clothing before reuse. Do not take clothing home to be laundered.

6.2 Environmental precautions

Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems of any body of water. Keep spills and cleaning run-off out of municipal sewers and open bodies of water.

6.3 Methods and materials for containment and cleaning up

If there is contamination of crops or waterways, advise emergency services or state department of agriculture.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid direct or prolonged contact with skin and eyes. Do not breathe dust. Do not ingest. It is recommended that wear full protective clothing including face mask, face shield and gauntlets, all skin areas should be covered, when handling this product.

Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. And take a bath or wash hands completely with soap after use. Remove contaminated clothing and protective equipment before entering eating areas.

Prevents handling of incompatible substances or mixtures when use this product. Minimize the release of this product to the environment when handling this product.

7.2 Conditions for safe storage, including any incompatibilities

Store the material in a well-ventilated, dry, cool, out of light and secure area, out of reach of children and domestic animals, and in sealed original containers. Do not store food, beverages or tobacco products in the storage area. Store this product away from the incompatible materials, explosive atmospheres, corrosive conditions, fire and heat, etc.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Contain no substances with occupational exposure limit values.

8.2 Appropriate engineering controls

Use only in an enclosed system. Use local exhaust ventilation. Safety shower. Use explosive dust handling controls.

8.3 Individual protection measures

Industrial hygiene: Remove and wash contaminated clothing promptly. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

Personal protective equipment

Respiratory protection:

Wear respirator with a particle filter mask (protection factor 20) conforming to European Norm EN149FFP3 or EN140P3 or equivalent.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Protective gloves: Rubber gloves;

Eye protection: Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid
Color	Colourless
Odor	Odorless
Melting point / freezing point	134 °C
Boiling point or initial boiling point and boiling range	No information (<i>EFSA Scientific Report</i> (2006) 82, 1-69)
Flammability	Not highly flammable
Lower and upper explosion limit/ flammability limit	Not applicable
Flash point	150 °C
Auto-ignition temperature	Not expected to self-ignite
Decomposition temperature	233 °C
pH value	Not determined
Kinematic viscosity	Not applicable
Solubility	In water 6.8 mg/l (20 °C). In acetone 342000, hexane 590, ethylacetate 225000, toluene 147000 (all in mg/l, 20 °C).
Partition coefficient n-octanol/water (log value)	Kow logP = 3.0
Vapour pressure	0.0005mPa (20 °C)
Density and/or relative density	Bulk density 1.0 g/cm ³
Relative vapor density	Not applicable
Particle characteristics (<i>Pesticide Properties DataBase</i>)	Not known

9.2 Other information

Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No reactivity under normal conditions.

10.2 Chemical stability

This product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

This product does not react or polymerize, releasing excess pressure or heat, or creating other

hazardous conditions.

10.4 Conditions to avoid

Avoid fire, feed, food and beds of water.

10.5 Incompatible materials

Not compatible with Strong oxidizing.

10.6 Hazardous decomposition products

When involves in a fire, maybe release carbon and nitrogen, chlorides and other toxic nitrogen compounds on combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Acute oral LD ₅₀ for rats and mice >2000 (<i>BCPC, e-The Pesticide Manual, Thirteenth Edition</i>). Acute dermal LD ₅₀ for rats and rabbits >2000 mg/kg (<i>BCPC, e-The Pesticide Manual, Thirteenth Edition</i>). Acute inhalation LC ₅₀ (4h) for rats >5.16 mg/l. (<i>Pesticide Properties DataBase</i>)
Skin corrosion/irritation	Not irritant to skin (Rabbits) (<i>BCPC, e-The Pesticide Manual, Thirteenth Edition</i>).
Serious eye damage/irritation	Irritating to eyes (Rabbits) (<i>BCPC, e-The Pesticide Manual, Thirteenth Edition</i>).
Respiratory or skin sensitization	Not a skin sensitizer (Buehler) (<i>European Commission 5036/VI/98-final</i>)
Germ cell mutagenicity	No genotoxic potential. (<i>European Commission 5036/VI/98-final</i>)
Carcinogenicity	Suspected of causing cancer (<i>PubChem Iprodione</i>)
Reproductive toxicity	The Lowest relevant reproductive NOAEL is 17 mg/kg bw/day. (<i>European Commission 5036/VI/98-final</i>)
STOT-single exposure	No available data.
STOT-repeated exposure	No available data.
Aspiration hazard	No available data.
Further information	No available data.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Eco-toxicity

- Birds** LD₅₀ (8 d) for for bobwhite quail >2000, mallard ducks >10400 mg/kg. (*BCPC, e-The Pesticide Manual, Thirteenth Edition*)
- Fish** LC₅₀ (96 h) for rainbow trout 4.1, bluegill sunfish 3.7 mg/l. (*BCPC, e-The Pesticide Manual, Thirteenth Edition*)
NOEC for oncorhynchus mykiss (21 d) 4.1 mg/l. (*Pesticide Properties DataBase*)
- Daphnia** EC₅₀ (48 h) 0.25 mg/l. (*BCPC, e-The Pesticide Manual, Thirteenth Edition*)
NOEC for daphnia magna 21 d) 0.17 mg/l. (*Pesticide Properties DataBase*)
- Algae** EC₅₀ (72 h) for 1.8 mg/l.
NOEC (96 h) 3.2 mg/l.
(*Pesticide Properties DataBase*)
- Bees** Non-toxic to bees, LD₅₀ (contact) >0.4 µg/bee, LD₅₀ (oral) >32.4 µg/bee
(*BCPC, e-The Pesticide Manual, Thirteenth Edition*)
- Worms** LC₅₀ (14 d) for earthworms >1000 mg/kg soil.
(*BCPC, e-The Pesticide Manual, Thirteenth Edition*)

12.2 Persistence and degradability

Rapidly metabolised in soil, with formation of CO₂. DT₅₀ (lab.) 20-80 d; (field) 20-160 d. K_{oc} 373 to 1551. Rate of degradation increases with successive treatments, hence accumulation does not occur.
(*BCPC, e-The Pesticide Manual, Thirteenth Edition*)

12.3 Bio-accumulative potential

BCF = 70 L/kg

(*Pesticide Properties DataBase*)

12.4 Mobility in soil

Slightly mobile, K_{oc} 202-543.

(*European Commission 5036/VI/98-final*)

12.5 Other adverse effects

None

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate

ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

13.2 Contaminated packaging

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: TRANSPORT INFORMATION

IMDG:

UN number: 3077

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(96% Iprodione)

Transport hazard class: 9

Packing group:III

Environmental hazards: Marine pollutant

Special precautions for user: None.

Transport in bulk according to IMO instruments: Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the product in question

WHO-classification:III (Slightly hazardous)

This product is not subject to any prohibitions or restrictions in China.

SECT 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 produces 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.