

Material Safety Data Sheet

IPRODIONE TECHNICAL

SDS # : 007088-A
Revision Date: 2012-05-02
Version 1



1. PRODUCT AND COMPANY IDENTIFICATION

Product name IPRODIONE TECHNICAL
Active Ingredient(s) Iprodione
Chemical Family Dicarboximide
Synonyms 3-(3,5-dichlorophenyl)-N-isopropyl-2,4 dioxoimidazolidine-1-carboxamide

Recommended use Fungicide formulation.

Manufacturer

FMC Corporation
Agricultural Products Group
1735 Market Street
Philadelphia, PA 19103
General Information:
Phone: (215) 299-6000
E-Mail: msdsinfo@fmc.com

Emergency telephone number

For leak, fire, spill or accident emergencies, call:
+1 800 / 424 9300 (CHEMTREC - U.S.A.)
+1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)
Medical Emergencies:
(800) 331-3148 (U.S.A. & Canada)
+1 (651) 632-6793 (All Other Countries - Collect)

2. Hazards identification

Classification of the substance or mixture

Carcinogenicity	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Labeling

Symbol(s)



Signal Word

Warning

Precautionary Statements

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P273 - Avoid release to the environment
P281 - Use personal protective equipment as required
P308 + P313 - IF exposed or concerned: Get medical advice/ attention
P405 - Store locked up
P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards which do not result in classification

General Hazards May cause slight eye irritation.

3. Composition/information on ingredients

Chemical Name	Weight %	ENCS (Japan)	ISHL No.	CAS-No
Iprodione	96			36734-19-7

4. First aid measures

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation Move to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

Suitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.

Environmental precautions Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.

Methods for containment Use a wet sweeping compound or water to prevent dust formation.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

7. Handling and storage

Handling Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

Storage Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container.

8. Exposure controls/personal protection

Exposure guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Occupational exposure controls

Engineering measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal Protective Equipment

General Information If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Respiratory protection For dust, splash, mist or spray exposures wear a filtering mask.

Eye/face protection For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield.

Skin and body protection Wear long-sleeved shirt, long pants, socks, shoes, and gloves.

Hand protection Protective gloves

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

9. Physical and chemical properties

Appearance	powder	
Odor	No off odor	
Physical state	solid	
pH	5.0	
Flash Point	not determined	
Autoignition Temperature	No data available	
Boiling Point/Range	No data available	
Melting Point/Range	128 - 128.5 °C	
Flammability Limits in Air	upper No data available	lower No data available
Explosion limits	upper No data available	lower No data available
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Evaporation rate	No data available	
Vapor density	No data available	
Bulk Density VALUE	0.4	
Solubility	No information available.	
Water solubility	13 mg/L at 20°C	
Partition coefficient:	No data available	

Viscosity, dynamic VALUE No information available.
Molecular Weight VALUE 330.2

10. Stability and reactivity

Stability Stable under recommended storage conditions.
Hazardous decomposition products Carbon oxides. nitrogen oxides (NOx). Sulfur oxides. Hydrogen chloride. Hydrogen fluoride.
Hazardous reactions None under normal processing.

11. Toxicological information

Acute Toxicity
 Product Information.

Skin contact Slightly or non-irritating (rabbit).
Eye contact Slightly or non-irritating (rabbit).
LD50 Dermal > 2,500 mg/kg (rat)
LD50 Oral 3,500 mg/kg (rat) >1000 mg/kg (rabbit)
LC50 Inhalation: > 5.16 mg/L 4 hr (rat)
Sensitization Non-sensitizer

Chronic Toxicity

Chronic Toxicity Prolonged exposure may cause chronic effects Possible risks of irreversible effects See Section 11 for additional Toxicological Information
Target Organ Effects Iprodione caused effects in the liver, adrenal, ovary and/or testes in chronic feeding studies in rats and dogs [NOEL: 2-year Study (rats): 150 mg/kg diet; 1-year Study (dogs): 18 mg/kg].
Carcinogenicity Iprodione: Animal experiments showed a statistically significant number of benign tumors (testicular, liver, and ovarian).
Mutagenicity Not mutagenic in Ames Test

12. Ecological information

Ecotoxicity effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Active Ingredient(s)				
Iprodione (36734-19-7)				
Active Ingredient(s)	Duration	Species	Value	Units
Iprodione	48 h EC50	Daphnia magna	0.7	mg/L
	72 h EC50	Algae (selenastrum)	3.12	mg/L
	96 h LC50	Rainbow trout	4.1	mg/L

Environmental Fate

Active Ingredient(s)
Iprodione (36734-19-7)

Active Ingredient(s)	Type of Test	Result
Iprodione	log Pow	3.0
	Mobility in soil	Limited mobility in soil due to its strong affinity for adsorption to organic matter.

13. Disposal considerations

Waste disposal methods Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

Contaminated packaging Dispose of in accordance with local regulations.

14. Transport information

Packaging Type Bulk, Non-Bulk

DOT This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.

TDG Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.

Proper shipping name Environmentally hazardous substance, solid, n.o.s.
Hazard Class 9
UN/ID No UN3077
Packing group III
Marine pollutant Iprodione.
Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Iprodione), 9, PG III, Marine Pollutant

IMDG/IMO

Proper shipping name Environmentally hazardous substance, solid, n.o.s.
UN/ID No UN3077
Hazard Class 9
Packing group III
Marine pollutant Iprodione
EmS No. F-A, S-F
Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Iprodione), 9, PG III, Marine Pollutant

ICAO/IATA

UN/ID No UN3077
Hazard Class 9
Proper shipping name Environmentally hazardous substance, solid, n.o. s.
Packing group III
Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Iprodione), 9, PG III, Marine Pollutant

15. Regulatory information

International Inventories

Chemical Name	TSCA Inventory (United States of America)	DSL (Canada)	EINECS/E LINC S (Europe)	ENCS (Japan)	IECSC (China)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)	NZIoC (New Zealand)

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Iprodione 36734-19-7	-	-	X	-	X	X	-	X	X
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ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Japan

Chemical Name	Dangerous Substances	organic solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poisonous and Deleterious Substances Control Law
Iprodione	not applicable	not applicable	not applicable		168	

16. Other information

Revision Date: 2012-05-02
Reason for revision: Initial Release.

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Prepared By

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End of Material Safety Data Sheet