SAFETY DATA SHEET ROVRAL® WP 50

SDS #: 7075-A Revision date: 2017-12-06

> Format: NA Version 1.04



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name ROVRAL® WP 50

Other means of identification

Product Code(s) 7075-A

Synonyms IPRODIONE: 3-(3,5-dichlorophenyl)-N-isopropyl-2,4 dioxoimidazolidine-1-carboxamide

(IUPAC name);

3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide (CAS name); 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide

Active Ingredient(s) Iprodione

Chemical Family Dicarboximide

Alternate Commercial Name Rovral® Wettable Powder; Rovral PH

PCP # 15213

Recommended use of the chemical and restrictions on use

Recommended Use: Fungicide

Restrictions on Use: Use as recommended by the label

Supplier Address

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

For leak, fire, spill or accident emergencies, call: 1 800 / 424 9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527 3887 (CHEMTREC - Alternate)

Medical Emergencies:

1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada)

1 651 / 632-6793 (ProPharma Group - All Other Countries - Collect)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

SDS #: 7075-A Revision date: 2017-12-06

Version 1.04

Carcinogenicity	Category 2
Reproductive toxicity	Category 2

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Warning

Hazard Statements

H351 - Suspected of causing cancer

H361 - Suspected of damaging fertility or the unborn child

Physical Hazards

May form combustible dust concentrations in air



Precautionary Statements - Prevention

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

P308 + P313 - If exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

May be harmful if swallowed. May be harmful in contact with skin. Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family

Dicarboximide.

Chemical name	CAS-No	Weight %
Iprodione	36734-19-7	50
Kaolin	1332-58-7	30-40
Nonylphenol ethoxylate	68412-54-4	1-5

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

Eye Contact

Hold eyes 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 further treatment advice.

Revision date: 2017-12-06

Version 1.04

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 further treatment advice.

Move to fresh air. If person is not breathing, contact emergency medical services, then give Inhalation

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.

Most important symptoms and effects, both acute and delayed None known.

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

Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water spray. carbon dioxide (CO₂). Foam. Dry chemical.

Specific Hazards Arising from the

Chemical

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

Not sensitive.

Static electricity might be sufficient to ignite dust clouds. Possibility of ignition will depend on the minimum ignition energy (MIE) and the type of operations undertaken with the

Thermal decomposition can lead to release of irritating and toxic gases and vapors

material. MIE values are not provided in this SDS.

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.

Other For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1

"Product and Company Identification" above.

Environmental Precautions Keep people and animals away from and upwind of spill/leak. Keep material out of lakes,

streams, ponds, and sewer drains.

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

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area,

tools and equipment by washing with 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 Handle in accordance with good industrial hygiene and safety practice. Do not contaminate

other pesticides, fertilizers, water, food, or feed by storage or disposal.

Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces Storage

and sources of ignition. Keep out of reach of children and animals. Store in original

container.

Incompatible products Strong acids, Strong bases, Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Revision date: 2017-12-06 Version 1.04

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Kaolin	TWA: 2 mg/m ³	TWA: 15 mg/m ³	TWA: 10 mg/m ³	Mexico: TWA 10 mg/m ³
(1332-58-7)		TWA: 5 mg/m ³	TWA: 5 mg/m ³	Mexico: STEL 20 mg/m ³
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Kaolin (1332-58-7)	TWA: 2 mg/m ³	TWA: 5 mg/m ³	TWA: 2 mg/m ³ respirable	TWA: 2 mg/m ³

Appropriate engineering 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.

Individual protection measures, such as personal protective equipment

Eye/Face Protection For dust, splash, mist or spray exposure, wear chemical protective goggles.

Skin and Body Protection Minimize skin contamination by following good industrial hygiene practices.

Hand Protection Protective gloves

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

Hygiene measuresClean 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.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Powder
Physical State Solid
Color Gray
Odor None

Odor threshold No information available

pH 6.0

Melting point/freezing point Not applicable

Boiling Point/Range No information available

Flash point Not applicable

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

No information available Upper flammability limit: Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available **Density** No information available Specific gravity No information available Water solubility Dispersible in water Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available

ROVRAL® WP 50

SDS #: 7075-A

Revision date: 2017-12-06

Version 1.04

Viscosity, kinematicNo information availableViscosity, dynamicNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

Molecular weight 330

Bulk density 224-368 kg/m³

10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid None known

Incompatible materials Strong acids, Strong bases, Strong oxidizing agents.

Hazardous Decomposition Products Carbon oxides (COx). nitrogen oxides (NOx). Sulfur oxides. hydrogen chloride. hydrogen

fluoride.

11. TOXICOLOGICAL INFORMATION

Product Information

 LD50 Oral
 > 2000 mg/kg (rat)

 LD50 Dermal
 > 2000 mg/kg (rat)

 LC50 Inhalation
 > 5 mg/L 4 hr (rat)

Serious eye damage/eye irritation

Skin corrosion/irritation Sensitization Mildly irritating. Minimally irritating. Non-sensitizing

Information on toxicological effects

Symptoms None known.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

doses in animal studies.

Mutagenicity Iprodione

Not genotoxic in laboratory studies

Carcinogenicity Iprodione: Animal studies showed significant increased incidences of liver tunors in mice

and Leydig cell tumor not relevant to humans. Ovarian tumors in rats are within historical

controls.

Neurological effects Iprodione Not neurotoxic.

Reproductive toxicity Iprodione: No toxicity to reproduction in animal studies. Delayed sexual maturation in

males observed at maternally toxic doses.

Developmental toxicity Iprodione: Caused minor delays or variations in fetal development at doses that were

maternally toxic.

STOT - single exposure Not classified. STOT - repeated exposure Not classified.

Target organ effectsLiver, Testes, Adrenal glandsNeurological effectsIprodione Not neurotoxic.Aspiration hazardNo information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

SDS #: 7075-A **Revision date**: 2017-12-06

Version 1.04

Iprodione (36734-19-7)				
Active Ingredient(s)	Duration	Species	Value	Units
Iprodione	48 h EC50	Crustacea	0.7	mg/L
	72 h EC50	Algae	1.8	mg/L
	96 h LC50	Fish	3.7	mg/L
	21 d NOEC	Fish	0.26	mg/L
	21 d NOEC	Crustacea	0.17	mg/L
	96 h NOEC	Algae	3.2	mg/L

Bioaccumulation Iprodione: The substance does not have a potential for bioconcentration.

Mobility Iprodione: Medium mobility; has some potential to reach groundwater.

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. Proper personal protective equipment, as described in

Sections 7 and 8, must be worn while handling materials for waste disposal.

Contaminated Packaging Containers must be disposed of in accordance with local, state and federal regulations.

Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION

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.

UN/ID no UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s.

Hazard class 9
Packing Group III

Marine Pollutant Iprodione.

Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Iprodione), 9, PG III, Marine

Pollutant

ICAO/IATA

UN/ID no UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s.

Hazard class 9
Packing Group III

Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Iprodione), 9, PG III, Marine

Pollutant

IMDG/IMO UN3077

Proper Shipping Name Environmentally hazardous substance, solid, n.o.s.

Hazard class 9
Packing Group III
EmS No. F-A, S-F
Marine Pollutant Iprodione

Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Iprodione), 9, PG III, Marine

Pollutant

Revision date: 2017-12-06

Version 1.04

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazardNoChronic health hazardYesFire hazardNoSudden release of pressure hazardNoReactive HazardNo

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if inhaled, swallowed and absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

This pesticide is toxic to aquatic invertebrates

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Prop. 65	
Iprodione - 36734-19-7	Carcinogen	

U.S. State Right-to-Know Regulations

	Chemical name	New Jersey	Massachusetts	Pennsylvania
Ī	Kaolin	X	X	X
-	1332-58-7			

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Iprodione			X		X	X		X

Revision date: 2017-12-06

Version 1.04

36734-19-7								
Kaolin 1332-58-7	Х	Х	Х	Х	Х	Х	Х	Х
Nonylphenol ethoxylate 68412-54-4	Х	Х	Х	Х	Х	Х	Х	Х

Mexico - Grade Serious risk, Grade 3

Chemical name	Carcinogen Status	Mexico
Kaolin		Mexico: TWA 10 mg/m ³
		Mexico: STEL 20 mg/m ³

WHMIS Statement

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

WHMIS Hazard Class D2B - Toxic materials



16. OTHER INFORMATION

NFPA	Health Hazards 3	Flammability 0	Instability 0	Special Hazards -
HMIS	Health Hazards 3*	Flammability 0	Physical hazard 0	Personal Protection X

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Reason for revision: (M)SDS sections updated

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End of Safety Data Sheet