

SAFETY DATA SHEET Rovral 250FS

SDS #: 7078-A

Revision date: 2021-10-26

Format: AP Version 2

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name Royral 250FS

Product Code(s) 7078-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) Xanthan Gum

Active Ingredient(s) Iprodione

Chemical Family Dicarboximide

Recommended Use: Fungicide

Restrictions on Use: See section 16 for more information.

Manufacturer/Supplier

FMC Corporation Agricultural Solutions 2929 Walnut Street Philadelphia, PA 19104 General Information: Phone: (215) 299-6000 E-Mail: sdsinfo@fmc.com

Emergency telephone Medical Emergencies: 0800 140 1447

For leak, fire, spill or accidents: 001-803-017-9114 (CHEMTREC Indonesia)

1 703 741-5970 (CHEMTREC – International)

Section 2: HAZARDS IDENTIFICATION

GHS Classification

Aspiration toxicity	Category 1
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Carcinogenicity	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label Elements

Format: AP

Revision date: 2021-10-26

Version 2



Signal Word: Danger

Hazard Statements

H304 - May be fatal if swallowed and enters airways

H332 - Harmful if inhaled

H351 - Suspected of causing cancer

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

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

P281 - Use personal protective equipment as required

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

Precautionary Statements - Response

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

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P331 - Do NOT induce vomiting

P391 - Collect spillage

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

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

Other Information

May be harmful if swallowed and enters airways.

May be harmful in contact with skin.

Very toxic to aquatic life with long lasting effects.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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) Xanthan Gum

Chemical name	CAS-No	Weight %
Xanthan Gum	11138-66-2	<0.1
Iprodione	36734-19-7	10 - 40
Petroleum distillates, solvent dewaxed light paraffinic	64742-56-9	10 - 40
FD & C Blue No.1	3844-45-9	1 - 15
Propylene glycol	57-55-6	1 - 15
Petroleum distillates, solvent dewaxed heavy paraffinic	64742-65-0	1 - 15
Phosphoric acid	7664-38-2	<0.1
Water	7732-18-5	10 - 40
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	0.1 - 1
Tristyrylphenol ethoxylate phosphate ester	90093-37-1	0.1 - 1
Dodoxynol-13	9046-09-7	0.1 - 1
Polyarylphenol ethoxylate	99734-09-5	0.1 - 1

Format: AP

Revision date: 2021-10-26

Version 2

Section 4: FIRST AID MEASURES

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.

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.

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.

Ingestion Call a physician or poison control center immediately. 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. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritation, Gastrointestinal effects.

Use personal protective equipment. See Section 8 for more detail.

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

Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

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

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire

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

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 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.

Methods for Containment Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and

transfer to containers for later disposal.

Methods for cleaning upClean 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.

Section 7: HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Do not contaminate

Format: AP

Revision date: 2021-10-26 Version 2

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.

Materials to avoid Strong acids, Strong bases, Strong oxidizing agents.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	China	Japan	Korea	Australia	Taiwan
Propylene glycol	Propylene glycol			TWA 150 ppm	
57-55-6 (1 - 15)				TWA 474 mg/m ³	
				TWA 10 mg/m ³	
Phosphoric acid	TWA: 1 mg/m ³	OEL: 1 mg/m ³	STEL: 3 mg/m ³	STEL 3 mg/m ³	STEL 2 mg/m ³
7664-38-2 (<0.1)	STEL: 3 mg/m ³		TWA: 1 mg/m ³	TWA 1 mg/m ³	

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

Respiratory Protection For dust, splash, mist or spray exposures wear a elastomeric full-face or half mask

respirator with appropriate cartridges and/or filters which is approved for pesticides (U.S.

NIOSH/MSHA, EU CEN or comparable certification organization).

Hand Protection Protective gloves.

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

Skin and Body Protection Wear long-sleeved shirt, long pants, socks, and shoes.

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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Appearance Dark blue Viscous Suspension

Odor Slight Color Dark blue

Odor threshold No information available

pH 2.0 - 4.0

Melting point/freezing point No information available

Boiling Point/Range >100 °C

Flash point
Evaporation Rate
No information available
No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available No information available Water solubility Solubility(ies) No information available **Partition coefficient** No information available

Format: AP

Revision date: 2021-10-26

Version 2

Autoignition temperature
Decomposition temperature
Viscosity, kinematic
Viscosity, dynamic
Molecular weight
Relative density

No information available
No information available
No information available
No data available
1.037 g/mL

Bulk density No information available

K_{st} >0 bar m/s

Section 10: STABILITY AND REACTIVITY

Reactivity None under normal use conditions

Stability Stable under recommended storage conditions

Hazardous reactionsNone under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid Heat.

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

Hazardous Decomposition Products Carbon oxides (COx). Nitrogen oxides (NOx). Hydrogen chloride.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

LD50 OralSimilar formulation > 2,000 mg/kg (rat)LD50 DermalSimilar formulation > 2,000 mg/kg (rat)LC50 Inhalation (dust)Similar formulation > 2.88 mg/L 4 hr (rat)

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation (vapor)
FD & C Blue No.1 (3844-45-9)	> 2 g/kg (Rat)		
Propylene glycol (57-55-6)	20000 mg/kg (Rat)	20800 mg/kg (Rabbit)	
Petroleum distillates, solvent dewaxed light paraffinic (64742-56-9)	> 5000 mg/kg (Rat)	> 5000 mg/kg(Rabbit)	> 5399 mg/m³ (Rat) 4 h
Petroleum distillates, solvent dewaxed heavy paraffinic (64742-65-0)	> 15000 mg/kg(Rat)	> 5000 mg/kg(Rabbit)	> 2400 mg/m³ (Rat) 4 h
Phosphoric acid (7664-38-2)	> 2000 mg/kg (rat)	= 2740 mg/kg (rabbit)	> 850 mg/m³ (rat) 1 h
Alcohols, C11-14-iso-, C13-rich, ethoxylated (78330-21-9)	588 mg/kg (calculated)		

Skin corrosion/irritation Slightly or non-irritating (rabbit).
Serious eye damage/eye irritation Slightly or non-irritating (rabbit).

Sensitization Non-sensitizer.

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

Mutagenicity Iprodione: Not genotoxic in laboratory studies.

Carcinogenicity Iprodione: Animal studies showed significant increased incidences of liver tumors in mice and Leydig cell tumor not relevant to humans. Ovarian tumors in rats are within historical

Format: AP

Revision date: 2021-10-26

Version 2

controls.

males observed at maternally toxic doses.

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

maternally toxic. Not classified.

STOT - single exposure STOT - repeated exposure

Chronic toxicity

ed exposure Not classified.

Iprodione: Prolonged exposure caused liver, adrenal and reproductive organ toxicity at high

doses in animal studies.

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

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Very toxic to aquatic life with long lasting effects.

lprodione (36734-19-7)							
Active Ingredient(s)	Ingredient(s) Duration		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.

No information available.

Mobility Iprodione: Medium mobility.

Section 13: DISPOSAL CONSIDERATIONS

Waste disposal methods Dispose of in accordance with local regulations.

Contaminated containers and

Other Adverse Effects

packages

Dispose of in accordance with federal, state and local regulations.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o. s. (liquid)

Hazard class 9
Packing Group III

Format: AP

Revision date: 2021-10-26 Version 2

EmS No. F-A, S-F **Environmental Hazards** Iprodione

ICAO/IATA

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o. s. (liquid)

Hazard class 9
Packing Group III

Environmental Hazards Iprodione

Section 15: REGULATORY INFORMATION

International Inventories

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device may not be subject to local notification requirements. Check local regulations for more information.

Chemical name		DSL (Canada)	EINECS/ELIN	ENCS (Japan)		KECL (Korea)		AICS
	States)		CS (Europe)		(IECSC)		(Philippines)	(Australia)
Xanthan Gum 11138-66-2	X	Х	X	Х	Х	X	Х	Х
Iprodione 36734-19-7			X		Х	X		Х
Petroleum distillates, solvent dewaxed light paraffinic 64742-56-9	Х	Х	Х		Х	Х	Х	Х
FD & C Blue No.1 3844-45-9	X	Х	X	X	Х	Х	Х	Х
Propylene glycol 57-55-6	X	Х	X	X	Х	Х	Х	Х
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	X	X	Х		Х	Х	Х	Х
Phosphoric acid 7664-38-2	X	Х	X	X	Х	Х	Х	Х
Water 7732-18-5	X	Х	X		Х	Х	Х	Х
Alcohols, C11-14-iso-, C13-rich, ethoxylated 78330-21-9	Х	Х			Х	Х	Х	Х
Tristyrylphenol ethoxylate phosphate ester 90093-37-1					Х			
Dodoxynol-13 9046-09-7	Х	Х			Х	Х	Х	Х
Polyarylphenol ethoxylate 99734-09-5		Х			Х	Х		Х

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

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

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

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

Format: AP

Revision date: 2021-10-26

Version 2

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Section 16: OTHER INFORMATION

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Revision note SDS sections updated.

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End of Safety Data Sheet