SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

PRODUCT NAME	IPRONE
OTHER NAME:	Suspension concentrate containing 500 g/L iprodione
USE:	Fungicide
SUPPLIER NAME:	AGPRO NZ Ltd
SUPPLIER ADDRESS:	10 Polaris Place, East Tamaki, Auckland 2013
	PO Box 58-963, Botany, Auckland 2163
SUPPLIER CONTACT:	09 273 3456 or freephone 0508 536 536
	www.agpro.co.nz
POISON INFORMATION:	National Poison Centre, 0800 POISON (0800 764 766) 24 hours
CHEMICAL EMERGENCY:	0800 CHEMCALL (0800 243 622) 24 hours

2. HAZARDS IDENTIFICATION

NEW ZEALAND:	Hazardous according to the Hazardous Substances (Hazard Classification) Notice 2020 of the HSNO Act, 1996
APPROVAL NUMBER:	HSR000623
HAZARD CLASSIFICATIONS:	Specific target organ toxicity (repeated exposure) Category 2,
	Hazardous to the aquatic environment acute Category 1,
	Hazardous to the aquatic environment chronic Category 1.
PICTOGRAMS:	
SIGNAL WORD:	WARNING
HAZARD STATEMENTS:	May cause damage to organs through prolonged or repeated exposure.
	Very toxic to aquatic life and with long lasting effects.
PREVENTION:	Do not breathe mist/vapours/spray.
	Avoid release to the environment.
RESPONSE:	Get medical advice if you feel unwell.
	Collect spillage.
STORAGE:	Refer Section 7.
DISPOSAL:	Dispose of unwanted product and used packaging in compliance with local regulations.
TRANSPORT:	Iprone is classified as Dangerous Goods Class 9 for Transport.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	% w/w
Iprodione	36734-19-7	45*
Glycerine	56-81-5	< 5
Other ingredients	Trade secret	balance

* equivalent to 500 g/L iprodione

4. FIRST - AID MEASURES

Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice. Have product label or SDS at hand.

If exposed, get medical advice if you feel unwell.

Ingestion	If swallowed, do NOT induce vomiting. Rinse mouth with water. Contact the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor for advice.
Inhalation	Remove patient to fresh air. Keep in position comfortable for breathing. If breathing is shallow or has stopped ensure airway is clear, apply resuscitation and seek medical assistance immediately.
Skin contact	Remove contaminated clothing and wash immediately with soap and water. If irritation persists, get medical advice. Wash contaminated clothing before reuse.
Eye contact	If in eyes flush with plenty of water holding eyelids open if necessary. Remove contact lenses if present, after a few minutes, then continue flushing with water. Get medical advice if irritation persists.
Advice to Doctor	No specific antidote. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability:	Non-flammable.
Hazardous Combustion Products:	If involved in a fire, may evolve toxic/harmful compounds.
Extinguishing Media:	Water fog or spray, carbon dioxide or dry chemical as appropriate to surrounding materials.
Protective Equipment:	Full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Wear personal protective equipment. Exclude non-essential people from the area. Contain spillage. Collect spillage in labelled containers than can be closed, for reuse or disposal. For small liquid spills absorb spillage with soil vermiculite, attapulgite, bentonite or clay absorbent, and place in a sealable labelled waste container. Dispose of waste safely in an approved landfill or hazardous waste facility.
Environmental Precautions:	Prevent from entering drains, waterways or sewers. If spill does enter waterways immediately contact local authority. Product is a herbicide and spillage on soil may damage crops.

7. HANDLING AND STORAGE

Handling:	Keep out of reach of children. Read label before use. Keep container tightly closed when not in use. Use only according to label. Wear personal protective equipment. Avoid contact with skin and eyes and inhalation of vapours or spray mist. Use outdoors or in well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Do not apply directly into or onto water. Take all reasonable steps to ensure the product does not cause any significant adverse effects to the environment beyond the application area. Written records of use are required if more than 3 kg (3L) applied within 24 hours in a place where the product is likely to enter air or water and leave the application area.
Storage:	Signage, an emergency response plan and secondary containment are required when more than 100 L is on site. Store in original container tightly closed and in a secure well-ventilated area away from foodstuffs, fertilisers and seeds. For guidance refer to the current version of NZS 8409 Management of Agrichemicals and the Health and Safety at Work (Hazardous Substances) Regulations 2017.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Worksafe NZ (12th edition, November 2020)

Ingredient	*Exposure*	*Form*	*WES-TWA*
Glycerine	Inhalation	mist	10 mg/m^3

Protective Equipment: When opening the container, preparing to measure, load or when applying: wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.

The following Standards provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501**, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

Engineering Controls: Handle outdoors or in a well-ventilated area. Use local exhaust ventilation, or other engineering controls as appropriate to conditions.

Hygiene Precautions: Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing and equipment daily after work.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white liquid
Odour:	Characteristic
Odour threshold:	No information available
pH (neat)	4.0 - 6.0
Melting point/freezing point:	Not available
Initial boiling point/range:	Not available
Flashpoint:	Non-flammable
Flammability (solid, gas):	Not applicable
Upper/lower flammability limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	ca 1.16
Solubilities:	Forms suspension in water
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	No information available
Decomposition temperature:	Not available
Kinematic viscosity:	Not available
Particle characteristics:	Not applicable

10. STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions in original container for at least two years.
Conditions to avoid:	No specific information available.
Incompatible substances or materials:	No specific information available.
Hazardous polymerization:	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Not classified as acutely toxic if swallowed, in contact with skin or if inhaled.
Aspiration hazard:	Not classified.
Respiratory irritation:	Not classified.
Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Not classified.
Respiratory or skin sensitization:	Not classified.
Germ cell mutagenicity:	Not classified.
Carcinogenicity:	Not classified. However, it is noted that the ECHA website identifies iprodione as suspected of causing cancer.
Reproductive toxicity:	Not classified.
Specific organ toxicity:	May cause damage organs or systems through prolonged or repeated exposure. Iprodione suspected of causing damage to the pulmonary systems, liver and spleen.
Narcotic effects:	Not classified.
Toxicological information:	Iprodione (active) Oral, rat LD_{50} >2000 mg/kg bw Dermal, rat LD_{50} 2000 mg/kg bw Inhalation, rat LC_{50} (4 hr) >5.16 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Iprone is classified as being very toxic to aquatic life and with long-lasting effects.
Ecotoxicological information:	Iprodione (active) Fish: *Lepomis macrohirus* LC_{50} (96 h) 3.7 g/L Crustacean: *Daphnia magna* EC_{50} (48 h) 0.66 mg/L Algae: *Raphidocelis subcapitata* EC_{50} (72 hr) growth 1.8 mg/L Aquatic plant: *Lemna gibba* EC_{50} (7d) growth,>1.0 mg/L Bird: *Colinus virginianus* LD_{50} >2000 mg/kg bw
Persistence and degradability:	DT_{50} (typical) 36.2 days.
Potential to be bioaccumulative:	Not expected to be bioaccumulative.
Mobility in soil:	Active ingredient has limited solubility in water; 6.8 mg/L.
Other adverse effects:	No information available.
Environmental Exposure Limits (EEL):	Not Applicable.

13. DISPOSAL CONSIDERATIONS

Product Disposal:	Dispose of product only by using according to label or dispose of at an approved landfill.
Container Disposal:	Ensure container is completely empty. Triple rinse with water and add rinsate to tank. Dispose of empty clean container to recycler for agricultural chemicals, otherwise crush and bury in an approved landfill. Do not use container for any other purpose.

14. TRANSPORT INFORMATION

UN Number:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (iprodione 50%)
DG Class:	9
Packing Group:	III
Marine Pollutant:	Yes
HAZCHEM:	3Z

15. REGULATORY INFORMATION

New Zealand Registered pursuant to the ACVM Act 1997, No. P9640

See www.foodsafety.govt.nz for registration conditions

Approved pursuant to the HSNO Act 1996, Approval Code HSR000623

See www.epa.govt.nz for Controls and www.worksafe.govt.nz.

Qualifications	Yes
Tracking:	No
Safety Data Sheet:	Any quantity
Restricted to workplace only:	No
Quantity that must be secured when unattended:	Not Applicable
Fire extinguishers	Not Required
Quantity for secondary containment and emergency response plan:	100 L
Quantity for signage:	100 L
Quantity for Location certificate	Not Required
Records of use (3 kg or more applied to area within 24 hours)	Not Required
Quantity that requires management in accordance with HSW HS Regulations	Not Required
Environmental Exposure Limits (EEL)	Not Applicable

16. OTHER INFORMATION

Version: 1.1

Issue Date: 16 June 2023

Reason for Issue: Supplier's contact details updated.

Replaces: Replaces version 1.0 dated January 2022

References:

ECHA European Chemical Agency

NZ EPA Approved Hazardous Substances Databases.

Supplier Safety Data Sheets

Worksafe NZ Workplace Exposure Standards and Biological Exposure Indices

NZS 5433:2020 New Zealand Standard Transport of Dangerous Goods on Land

Abbreviations:

ACVM	Agricultural Chemicals and Veterinary Medicines Group
ADI	Acceptable Daily Intakes
BCF	Bioconcentration factor
CAS Number	Chemical Abstracts Service Registry Number
CCID	Chemical Classification Identification Database
EPA	Environmental Protection Authority
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
HSNO	Hazardous Substances and New Organisms

HS	Health and Safety
HSR	Hazardous Substances Register
IARC	International Agency for Research on Cancer
LC_{50}	Median Lethal Concentration
LD_{50}	Median Lethal Dose (50% population)
SDS	Safety Data Sheet
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
TWA	Time-Weighted Average
UN Number	United Nations Number
WES-STEL	Workplace exposure standards – Short-term exposure limit
WES-TWA	Workplace exposure standards – Time-weighted average

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

End of Safety Data Sheet.