

Safety Data Sheet
according to WHS Regulations

Printing date 28.06.2021

Revision: 25.06.2021

1 Identification

Product Name: RELYON FIPRONIL 200 INSECTICIDE

Other Means of Identification: Mixture

APVMA Number: 91230

Recommended Use of the Chemical and Restriction on Use: Agricultural insecticide

Details of Manufacturer or Importer:

Nutrien Ag Solutions

Level 5, Building A

26 Talavera Road

Macquarie Park NSW 2113

Phone Number: (02) 9889 5400

Emergency telephone number: 1800 033 111

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Health hazard

STOT RE 1

H372 Causes damage to organs through prolonged or repeated exposure.



Environment

Aquatic Acute 1

H400 Very toxic to aquatic life.

Aquatic Chronic 1

H410 Very toxic to aquatic life with long lasting effects.



Acute Toxicity (Oral) 4

H302 Harmful if swallowed.

Acute Toxicity (Dermal) 4

H312 Harmful in contact with skin.

Acute Toxicity (Inhalation) 4

H332 Harmful if inhaled.

Signal Word Danger

Hazard Statements

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 28.06.2021

Revision: 25.06.2021

Product Name: RELYON FIPRONIL 200 INSECTICIDE

(Contd. of page 1)

- P273 Avoid release to the environment.
 P280 Wear protective gloves / protective clothing.
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P314 Get medical advice/attention if you feel unwell.
 P321 Specific treatment (see on this label).
 P330 Rinse mouth.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P391 Collect spillage.
 P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 120068-37-3	Fipronil (ISO)	20%
	 Acute Toxicity (Oral) 3, H301; Acute Toxicity (Dermal) 3, H311; Acute Toxicity (Inhalation) 3, H331; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

Additional information: Vegetable oils, CAS No. not supplied, 30 - 60%

4 First Aid Measures

General Information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention.

Eye Contact:

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

Symptoms Caused by Exposure:

Inhalation: Harmful if inhaled. May cause mild respiratory irritation.

Skin Contact: Harmful in contact with skin. May cause convulsions, sluggishness, salivation, tremors, hyperactivity and diarrhoea. May cause mild skin irritation.

Eye Contact: May cause mild eye irritation.

Ingestion: Harmful if swallowed. May cause irritation to mucous membranes, tremors, seizures, hunched posture and altered gait.

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 28.06.2021

Revision: 25.06.2021

Product Name: RELYON FIPRONIL 200 INSECTICIDE

(Contd. of page 2)

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, nitrogen and sulphur, other nitrogen compounds, other sulphur compounds, hydrogen cyanide, hydrogen chloride, other chlorine compounds, water and smoke. This product is not flammable, but may burn or decompose in a fire.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers. Prevent run-off from fire fighting entering drains or water courses.

HAZCHEM Code: •3Z

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear appropriate respiratory protection and protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Wash area after spills.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from direct sunlight.

8 Exposure Controls and Personal Protection

Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:

Respiratory protection is not required under normal use conditions.

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

PVC or rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 28.06.2021

Revision: 25.06.2021

Product Name: RELYON FIPRONIL 200 INSECTICIDE

(Contd. of page 3)

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Cream to yellow
Odour:	Mild
Odour Threshold:	No information available
pH-Value:	7 - 9 (estimated)
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	~100 °C (at 100 kPa)
Flash Point:	Not applicable
Flammability:	Product is not flammable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure at 20 °C:	2.37 kPa (water vapour pressure)
Relative Density:	~1.03
Vapour Density:	As for water.
Evaporation Rate:	As for water.
Solubility in Water:	Completely soluble

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid: Direct sunlight.

Incompatible Materials: No further relevant information available.

Hazardous Decomposition Products:

Oxides of carbon, nitrogen and sulphur, other nitrogen compounds, other sulphur compounds, hydrogen cyanide, hydrogen chloride, other chlorine compounds, water and smoke.

11 Toxicological Information

Toxicity:**LD50/LC50 Values Relevant for Classification:****RELYON FIPRONIL 200 INSECTICIDE**

Oral	LD50	1099 mg/kg (rat)
Dermal	LD50	2493 mg/kg (rabbit)
Inhalation	LC50/4 h	1.07 mg/l (rat)

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 28.06.2021

Revision: 25.06.2021

Product Name: RELYON FIPRONIL 200 INSECTICIDE

(Contd. of page 4)

CAS: 120068-37-3 Fipronil (ISO)		
Oral	LD50	91 mg/kg (mouse) 92 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) 445 mg/kg (rabbit)
Inhalation	LC50/4 h	0.36-0.42 mg/l (mouse)

Acute Health Effects**Inhalation:** Harmful if inhaled. May cause mild respiratory irritation.**Skin:**

Harmful in contact with skin. May cause convulsions, sluggishness, salivation, tremors, hyperactivity and diarrhoea. May cause mild skin irritation.

Eye: May cause mild eye irritation.**Ingestion:**

Harmful if swallowed. May cause tremors, seizures, hunched posture and altered gait. May cause irritation to mucous membranes.

Skin Corrosion / Irritation: Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No data associated with long term health effects.**Existing Conditions Aggravated by Exposure:** No data available.**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for fipronil for a human is 0.0002 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.02 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2021).

12 Ecological Information**Ecotoxicity:** Fipronil is toxic to bees.**Aquatic toxicity:**

Very toxic to aquatic life with long lasting effects.

CAS: 120068-37-3 Fipronil (ISO)	
LC50	0.085 mg/l (bluegill) 0.43 mg/l (carp) 0.19 mg/l (daphnia)

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 28.06.2021

Revision: 25.06.2021

Product Name: RELYON FIPRONIL 200 INSECTICIDE

(Contd. of page 5)

0.248 mg/l (rainbow trout)

Persistence and Degradability:

Biodegradable. Fipronil has a half-life of 122-128 days in oxygenated sandy loam and 34 days in loamy soil when exposed to sunlight.

Bioaccumulative Potential: This product is not expected to accumulate in soils or water.

Mobility in Soil: Fipronil adsorbs to soil particles and so has low mobility in soils.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers:

Dispose according to applicable local and state government regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number ADG, IMDG, IATA	UN3082
Proper Shipping Name ADG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FIPRONIL)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FIPRONIL), MARINE POLLUTANT
Dangerous Goods Class ADG Class: Subsidiary Risk:	9 Miscellaneous dangerous substances and articles.
Packing Group: ADG, IMDG, IATA	III
Marine pollutant:	Yes Symbol (fish and tree)
EMS Number:	F-A,S-F
Hazchem Code:	•3Z
Special Provisions:	274, 331, 335, 375, AU01
Transport/Additional information:	Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01)
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Packagings & IBCs - Special Packing Provisions:	PP1
Portable Tanks & Bulk Containers - Instructions:	T4
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP29

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Printing date 28.06.2021

Revision: 25.06.2021

Product Name: RELYON FIPRONIL 200 INSECTICIDE

(Contd. of page 6)

15 Regulatory Information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 28.06.2021**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Oral) 3: Acute toxicity - oral – Category 3

Acute Toxicity (Oral) 4: Acute toxicity - oral – Category 4

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

Data altered compared to the previous version:

Section 1: Emergency telephone Number.

Section 5: Specific Hazards Arising from the Chemical.

Section 14: ADG Classification, Additional/Transport Information

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Nutrien Ag Solutions makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.