

# Safety Data Sheet

according to WHS Regulations

Printing date 12.11.2019

Revision: 12.11.2019

## 1 Identification

**Product Name:** RELYON FIPRONIL 800 WG INSECTICIDE

**Other Means of Identification:** Mixture

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

**Details of Manufacturer or Importer:**

Nutrien Ag Solutions Limited  
Level 5, Building A  
26 Talavera Road  
Macquarie Park NSW 2113

**Phone Number:** 02 9889 5400

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 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).



skull and crossbones

Acute Toxicity (Oral) 3      H301 Toxic if swallowed.

Acute Toxicity (Dermal) 3      H311 Toxic in contact with skin.

Acute Toxicity (Inhalation) 3      H331 Toxic if inhaled.



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.

**Signal Word** Danger

**Hazard Statements**

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic 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 hands thoroughly after handling.

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

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

P273 Avoid release to the environment.

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- P280 Wear protective gloves / protective clothing.  
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
 P321 Specific treatment (see on this label).  
 P330 Rinse mouth.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P311 Call a POISON CENTER/doctor.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P314 Get medical advice/attention if you feel unwell.  
 P361+P364 Take off immediately all contaminated clothing and wash it before reuse.  
 P391 Collect spillage.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 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)	80%

### 4 First Aid Measures

#### Inhalation:

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

#### Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap for at least 30 minutes. Seek medical attention if symptoms occur.

#### Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

#### Ingestion:

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

#### Symptoms Caused by Exposure:

Inhalation: Toxic if inhaled.

Skin Contact: Toxic in contact with skin. May cause skin irritation and redness.

Eye Contact: May cause eye irritation, redness and watering.

Ingestion: Toxic if swallowed. May cause gastrointestinal irritation and reddening of the mouth and throat.

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Water fog.

#### 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, hydrogen fluoride, other fluorine compounds and smoke.

This product is not flammable, but may burn or decompose in a fire. Fine dust may form explosive mixture in

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air. Vapours of decomposition products are heavier than air and may accumulate in low-lying areas, potentially forming explosive mixtures in air.  
Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

**Special Protective Equipment and Precautions for Fire Fighters:**

Mouth respiratory protective device.

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 approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

**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 sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Wash spill area with plenty of water, preventing runoff from entering drains.

### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. 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 container tightly closed when not in use. Check containers regularly for leaks. Protect from direct sunlight. Keep away from strong oxidising agents, strong acids and strong bases.

### 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:**

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand 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.

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.

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**Eye and Face Protection:**

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Granulated solid
<b>Colour:</b>	Brown
<b>Odour:</b>	Slight
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	5.6 (1% in water)
<b>Melting point/freezing point:</b>	~200 °C
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	No information available
<b>Flammability:</b>	Product is not flammable.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	Negligible at normal ambient temperatures.
<b>Relative Density:</b>	No information available
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Dispersible
<b>Partition Coefficient (n-octanol/water):</b>	No information available

## 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

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

**Conditions to Avoid:** Direct sunlight.

**Incompatible Materials:** Strong oxidising agents, strong acids and strong bases.

**Hazardous Decomposition Products:**

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

## 11 Toxicological Information

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****CAS: 120068-37-3 Fipronil (ISO)**

Oral	LD <sub>50</sub>	91 mg/kg (mouse) 92 mg/kg (rat)
Dermal	LD <sub>50</sub>	>2,000 mg/kg (rat) 445 mg/kg (rabbit)
Inhalation	LC <sub>50</sub> /4 h	0.36-0.42 mg/l (mouse)

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**Acute Health Effects****Inhalation:** Toxic if inhaled.**Skin:** Toxic in contact with skin. May cause skin irritation and redness.**Eye:** May cause eye irritation, redness and watering.**Ingestion:** Toxic if swallowed. May cause gastrointestinal irritation and reddening of the mouth and throat.**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:** May cause cancer.**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 information available**Existing Conditions Aggravated by Exposure:** No information 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', 2019).

Exposure to fipronil has been shown to cause convulsions, sluggishness, salivation, spasms, tremors, hyperactivity, diarrhoea, weight loss and death in laboratory animals.

## 12 Ecological Information

**Ecotoxicity:**

LC50 (8 day): 48 mg/kg (Bobwhite quail)

LC50 (8 day): &gt;3000 mg/kg (Mallard duck)

Toxic to bees.

**Aquatic toxicity:**

Very Toxic to aquatic life with long lasting effects.

**CAS: 120068-37-3 Fipronil (ISO)**LC<sub>50</sub> 0.085 mg/l (bluegill)

0.43 mg/l (carp)

0.19 mg/l (daphnia)

0.248 mg/l (rainbow trout)

**Persistence and Degradability:**

Fipronil has a half-life in soil of 122 - 128 days. If exposed to sunlight fipronil has a half-life in soil of 34 days.

**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** Fipronil strongly binds to soil and has low mobility.

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**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

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

## 14 Transport Information

<b>UN Number ADG, IMDG, IATA</b>	UN2588
<b>Proper Shipping Name ADG, IMDG, IATA</b>	PESTICIDE, SOLID, TOXIC, N.O.S. (Fipronil)
<b>Dangerous Goods Class ADG Class:</b>	6.1 Toxic substances.
<b>Packing Group: ADG, IMDG, IATA</b>	III
<b>Marine pollutant:</b>	Yes Symbol (fish and tree)
<b>EMS Number:</b>	F-A,S-A
<b>Hazchem Code:</b>	2X
<b>Special Provisions:</b>	61, 223, 274
<b>Limited Quantities:</b>	5 kg
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P002, IBC08, LP02
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	B3
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T1
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP33

## 15 Regulatory Information

**Australian Inventory of Chemical Substances:** This chemical is not found in AICS.**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 6

## 16 Other Information

**Date of Preparation or Last Revision:** 12.11.2019**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.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)

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

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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 – Category 3

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

**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 - February 2016"

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