

# Safety Data Sheet

according to WHS Regulations

Printing date 30.06.2021

Revision: 24.06.2021

## 1 Identification

**Product Name:** RELYON ABAMECTIN 18 EC INSECTICIDE/MITICIDE

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Agricultural miticide and 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).



Skull and crossbones

Acute Toxicity (Oral) 3

H301 Toxic if swallowed.



Health hazard

Toxic To Reproduction 1B  
STOT RE 2

H360 May damage fertility or the unborn child.

H373 May cause damage to the central nervous system and the peripheral nervous system 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.



Skin Corrosion/Irritation 2

H315 Causes skin irritation.

Serious Eye Damage/Irritation 2A

H319 Causes serious eye irritation.

STOT SE 3

H335 May cause respiratory irritation.

**Signal Word** Danger

**Hazard Statements**

H301 Toxic if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

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H335 May cause respiratory irritation.

H373 May cause damage to the central nervous system and the peripheral nervous system through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
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.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
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: 111-27-3	Hexan-1-ol ⚠ Acute Toxicity (Oral) 4, H302; Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; Flammable Liquids 4, H227	30-50%
CAS: 872-50-4	N-methyl-2-pyrrolidone ⚠ Toxic To Reproduction 1B, H360; ⚠ Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; STOT SE 3, H335; Flammable Liquids 4, H227	30-50%
CAS: 71751-41-2	Abamectin (combination of avermectin B1a and avermectin B1b) (ISO) ⚠ Acute Toxicity (Oral) 2, H300; Acute Toxicity (Inhalation) 1, H330; ⚠ Toxic To Reproduction 2, H361; STOT RE 1, H372; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1.8%

### 4 First Aid Measures

**General Information:**

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

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**Inhalation:**

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

**Skin Contact:**

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

**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 persist.

**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: May cause respiratory irritation. Symptoms include pupil dilation, vomiting, convulsions, tremors, coma, nervous system depression, incoordination, lethargy, respiratory failure and death.

Skin Contact: Causes skin irritation, itchiness and reddening.

Eye Contact: Causes serious eye irritation, stinging, redness and watering.

Ingestion: Toxic if swallowed. Symptoms include pupil dilation, vomiting, convulsions, tremors, coma, nervous system depression, incoordination, lethargy, respiratory failure and death.

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Water fog or fine spray

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon and nitrogen, other nitrogen compounds, nitrogen, hydrogen cyanide and water.

Product is not flammable, but may burn in fire.

Containers close to fire should be removed only 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: 2X

**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 approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**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 labelled container for disposal. Provide adequate ventilation. Use only non-sparking tools.

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

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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, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents, acids, bases and combustible materials

### 8 Exposure Controls and Personal Protection

**Exposure Standards:****CAS: 872-50-4 N-methyl-2-pyrrolidone**

NES	STEL: 309 mg/m <sup>3</sup> , 75 ppm TWA: 103 mg/m <sup>3</sup> , 25 ppm Sk
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**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards. Use explosion-proof ventilating equipment.

**Respiratory Protection:**

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.

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:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Colourless to yellow
<b>Odour:</b>	Characteristic
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	~70 °C
<b>Flammability:</b>	Product is not flammable, but may burn in fire.
<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

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<b>Upper:</b>	No information available
<b>Vapour Pressure:</b>	No information available
<b>Relative Density:</b>	~1.0
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Emulsifies into water.

## 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:** Heat, sparks, open flames, hot surfaces and direct sunlight.

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

**Hazardous Decomposition Products:**

Oxides of carbon and nitrogen, other nitrogen compounds, nitrogen, hydrogen cyanide and water.

## 11 Toxicological Information

**Toxicity:**

**LD50/LC50 Values Relevant for Classification:**

**CAS: 71751-41-2 Abamectin (combination of avermectin B1a and avermectin B1b) (ISO)**

Oral	LD50	10 mg/kg (rat) 13 - >80 mg/kg (mouse)
Dermal	LD50	>330 mg/kg (rat) >330 mg/kg (rabbit)

**CAS: 111-27-3 Hexan-1-ol**

Oral	LD50	720 mg/kg (rat)
Dermal	LD50	3100 mg/kg (rabbit)

**CAS: 872-50-4 N-methyl-2-pyrrolidone**

Oral	LD50	3914 mg/kg (rat)
Dermal	LD50	8000 mg/kg (rabbit)

**Acute Health Effects**

**Inhalation:**

May cause respiratory irritation. Symptoms include pupil dilation, vomiting, convulsions, tremors, coma, nervous system depression, incoordination, lethargy, respiratory failure and death.

**Skin:** Causes skin irritation, itchiness and reddening.

**Eye:** Causes serious eye irritation, stinging, redness and watering.

**Ingestion:**

Toxic if swallowed. Symptoms include pupil dilation, vomiting, convulsions, tremors, coma, nervous system depression, incoordination, lethargy, respiratory failure and death.

**Skin Corrosion / Irritation:** Causes skin irritation.

**Serious Eye Damage / Irritation:** Causes serious eye irritation.

**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.

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**Reproductive Toxicity:** May damage fertility or the unborn child.**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation.**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

May cause damage to the central nervous system and the peripheral nervous system through prolonged or repeated exposure.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.**Chronic Health Effects:**

Repeated or prolonged exposure may cause pupil dilation, weight loss, lethargy, tremors, dermatitis and changes in blood formation. Prolonged exposure may cause permanent eye damage.

**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for abamectin for a human is 0.001 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 0.12 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:**

Highly toxic to bees, and practically non-toxic to birds.

LD50 (bobwhite quail) &gt;2000 mg/kg

LC50 (bobwhite quail) 3120 ppm

LC50/24 h (bees) 0.002 µg/bee

LD50 (bees) 0.009 µg/bee

**Aquatic toxicity:**

Very toxic to aquatic life with long lasting effects.

**CAS: 71751-41-2 Abamectin (combination of avermectin B1a and avermectin B1b) (ISO)**

LC50/48 h	0.003 mg/L (daphnia)
LC50/96 h	0.0016 mg/L (shrimp)
	0.003 mg/L (rainbow trout)
	0.0096 mg/L (bluegill)
	0.015 mg/L (minnows)
	0.024 mg/L (fish)
	0.042 mg/L (carp)
	153 mg/L (crustacea)
	430 mg/L (invertebrata)

**Persistence and Degradability:**

Easily biodegradable. Half-life range from 8 hours at soil surface to 2 months in dark aerobic environments.

**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:**

Due to the product's low solubility, it has low mobility in soil, and is not expected to leach or contaminate groundwater.

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

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## 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</b>	UN2902
<b>ADG, IMDG, IATA</b>	
<b>Proper Shipping Name</b>	PESTICIDE, LIQUID, TOXIC, N.O.S. (Abamectin (combination of avermectin B1a and avermectin B1b) (ISO)), ENVIRONMENTALLY HAZARDOUS
<b>ADG</b>	
<b>IMDG</b>	PESTICIDE, LIQUID, TOXIC, N.O.S. (Abamectin (combination of avermectin B1a and avermectin B1b) (ISO)), MARINE POLLUTANT
<b>IATA</b>	PESTICIDE, LIQUID, TOXIC, N.O.S. (Abamectin (combination of avermectin B1a and avermectin B1b) (ISO))
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	6.1 Toxic substances.
<b>Subsidiary Risk:</b>	
<b>Packing Group:</b>	III
<b>ADG, IMDG, IATA</b>	
<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>	5L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC03, LP01
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T7
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP2, TP28

## 15 Regulatory Information

**Australian Inventory of Industrial Chemicals:**

All ingredients are listed.

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

Poisons Schedule: 6

## 16 Other Information

**Date of Preparation or Last Revision:** 24.06.2021

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**Prepared by:****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)  
Flammable Liquids 4: Flammable liquids – Category 4  
Acute Toxicity (Oral) 2: Acute toxicity - oral – Category 2  
Acute Toxicity (Oral) 3: Acute toxicity - oral – Category 3  
Acute Toxicity (Oral) 4: Acute toxicity - oral – Category 4  
Acute Toxicity (Inhalation) 1: Acute toxicity - inhalation – Category 1  
Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2  
Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A  
Toxic To Reproduction 1B: Reproductive toxicity – Category 1B  
Toxic To Reproduction 2: Reproductive toxicity – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1  
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
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 4 - Symptoms Caused by Exposure  
Section 5 - Specific Hazards Arising from the Chemical  
Section 6 - Methods and Materials for Containment and Cleaning Up  
Section 11

**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”

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