



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 20.09.2024

Revision: 20.09.2024

Product Name: 4FARMERS ABAMECTIN 18 EC

## 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** 4FARMERS ABAMECTIN 18 EC MITICIDE – INSECTICIDE**APVMA NO:** 54914**Other Means of Identification:** Mixture**Recommended Use of the Chemical and Restriction on Use:** Agricultural insecticide**Details of Manufacturer or Importer:**

4Farmers Australia Pty Ltd

70 McDowell Street

Welshpool WA 6106

**Phone Number:** +61 8 9356 3445**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2. HAZARDS 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 Transport of Dangerous Goods by Road and Rails (7<sup>th</sup> edition)

Acute Toxicity – Oral: Hazard Category 4.

Skin Corrosion/Irritation: Hazard Category 2.

Eye Damage/Irritation: Hazard Category 2A.

Acute Toxicity – Inhalation: Hazard Category 3.

Specific Target Organ Toxicity (Single Exposure): Hazard Category 3.

Reproductive Toxicity: Hazard Category 1.

Hazardous to the aquatic environment – Long term (Chronic) hazard: Hazard Category 1.



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**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H320 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

H360 May damage the unborn child.

H410 Very toxic to Aquatic life with long lasting effects.

# SAFETY DATA SHEET

## According to Safe Work Australia

Printing date 20.09.2024

Revision: 20.09.2024

Product Name: 4FARMERS ABAMECTIN 18 EC

### Precautionary Statements:

P201 Obtain special instructions before use.

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

P261 Avoid breathing mist, vapours or spray.

P264 Wash hands, arms and face 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.

P281 Use personal protective equipment as required.

### Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician if you feel unwell.

P321 Specific treatment see Safety Directions on product label.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use carbon dioxide, foam or dry agent for extinction.

P391 Collect spillage.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

### Disposal:



P501 Dispose of contents/container in accordance with national regulations.

## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

### Chemical Characterization: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

### Hazardous Components:

71754-41-2	Abamectin Acute Tox. (Oral) 3, H301; Acute Tox. (Dermal) 3, H311; Acute Tox. (Inhalation) 3,H331;  STOT RE 1, H372;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410	1.8%
872-50-4	N-methy-2-pyrrolidone H301; Acute Tox. (Dermal) 3, H311; Eye Irritation, H319;	10%
Aromatic hydrocarbons	64742-94-5	49%
Other non hazardous items	secret	39%

## 4 . FIRST AID MEASURES

### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Do not give mouth-to-mouth if substance has been inhaled or ingested. Instead, use a pocket mask or proper respiratory device. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

### Skin Contact:

# SAFETY DATA SHEET

## According to Safe Work Australia

Printing date 20.09.2024

Revision: 20.09.2024

Product Name: 4FARMERS ABAMECTIN 18 EC

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap for at least 20 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. Never give anything by mouth to an unconscious person. Contact Poisons Information Centre. Seek Medical help. Give activated charcoal if instructed

### 5 . FIRE FIGHTING MEASURES

**Fire and Explosion Hazards:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** Foam, Dry chemical powder Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimize spillage entering drains or water courses.

**Fire Fighting:** If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire.

Recommended personal protective equipment is liquid-tight chemical protective clothing and breathing apparatus.

**Flash point:** >62°C

Upper Flammability Limit: No data.

Lower Flammability Limit: No data.

Autoignition temperature: No data.

**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

**Minor Spills**

Environmental hazard-contain spillage

-clear area of personal and move up wind

-Alert Fire Brigade and inform nature of hazard and location

**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 contact with skin, eyes and clothing.

**Environmental Precautions:**

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

Avoid contact or combination of product with incompatible materials.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and cover with a plastic sheet to prevent spreading. Sweep and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation.

### 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.

# SAFETY DATA SHEET

## According to Safe Work Australia

Printing date 20.09.2024

Revision: 20.09.2024

Product Name: 4FARMERS ABAMECTIN 18 EC

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Empty containers may contain residual dust which can form explosive mixtures in air. Do not weld, cut or drill on full or empty containers. Recommended storage temperature is 0 - 30 °C. Do not store near feed, beverages or foodstuffs. Keep away from strong acids and 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.

SWA Exposure Limits	TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )
N-Methyl pyrrolidone	103	309

**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:**

Impervious nitrile rubber or PVC 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 dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Clear Liquid
<b>Colour:</b>	Light brown
<b>Odour:</b>	Characteristic Odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	5.5 - 7.5
<b>Melting point/Melting range:</b>	No data
<b>Initial Boiling Point/Boiling Range:</b>	Not determined
<b>Flash Point:</b>	> 62 °C
<b>Flammability:</b>	Product is not flammable.
<b>Auto-ignition Temperature:</b>	Not determined
<b>Decomposition Temperature:</b>	Not determined
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	Not applicable
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	Not determined
<b>Solubility in Solvents:</b>	Emulsifiable
<b>Viscosity:</b>	Not available

# SAFETY DATA SHEET

## According to Safe Work Australia

Printing date 20.09.2024

Revision: 20.09.2024

Product Name: 4FARMERS ABAMECTIN 18 EC

### 10 . STABILITY AND REACTIVITY

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

**Conditions to Avoid:** This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry. Keep away from sources of sparks or ignition. Keep isolated from combustible materials. Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** strong oxidising agents.

**Fire Decomposition:** Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** Polymerisation reactions are unlikely; they are not expected to occur

### 11 . TOXICOLOGICAL INFORMATION

No data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure. This formulation contains aromatic hydrocarbons.

**Potential Health Effects:**

#### ACUTE EFFECTS

**Swallowed:** Toxic effects may result from the accidental ingestion of the material; animal experiments indicate that ingestion of less than 40 gram may be fatal or may produce serious damage to the health of the individual. There have been several reports of acute human exposure incidents with abamectin containing formulations. Abamectin is a mixture of avermectins. Clinical symptoms of severe abamectin intoxication include mydriasis, sedation, emesis, tremors, convulsions, coma and death. This product is harmful if swallowed. The estimated Acute Oral LD50 (rat) = 300 mg/kg.

**Eye:** This product may cause irritation to the eyes.

**Skin:** This product maybe irritating to the skin and may be sensitising. This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition.

**Inhaled:** Harmful by inhalation. Inhalation of mists or sprays may produce respiratory irritation. The estimated LC50 is 3.5 mg/L/4 hours.

**Long Term Exposure:** When this product is used according to the directions, prolonged exposure to users is not expected. In a 1 year study with dogs given oral doses of 0.25 to 1 mg/kg/day, there were no changes in tissue at any dose level. However, some dogs at the 0.5 and 1 mg/kg/day levels had papillary dilation, weight loss, lethargy, tremors and recumbency. The NOEL for this study was 0.25 mg/kg/day. Similar results were seen in a 2 year study with rats fed 0.75, 1.5 or 2 mg/kg/day. No changes in the nervous or muscular systems were observed, but rats in all dosage levels exhibited body weight gains significantly higher than the controls. When mice were fed 8 mg/kg/day, the highest dose tested, for 94 weeks, the males developed dermatitis and changes in blood formation in the spleen, while females exhibited tremors and weight loss.

Abamectin has produced cleft palate in the offspring of treated mice and rabbits, but only at doses that were also toxic to the mothers. There were no birth defects in the offspring of rats given up to 1 mg/kg/day. Abamectin is not mutagenic. Abamectin was not carcinogenic in rats of mice fed the maximum tolerated

### 12 . ECOLOGICAL INFORMATION

**Environmental Toxicology:** No information is available for the product. The following information refers to the active ingredient, abamectin. Toxic to waterfowl (Mallard duck LD50 = 84 mg/kg), but relatively non toxic to upland game birds (Bobwhite quail LD50 > 2000 mg/kg) Toxic to fish - rainbow trout LD50 = 3.6 µg/L and bluegill sunfish LD50 = 9.6 µg/L. Very toxic to Daphnia magna LC50 (48 hour) = 0.34 µg/L. Toxic to bees. DO NOT contaminate streams, rivers or water courses.

# SAFETY DATA SHEET

## According to Safe Work Australia

Printing date 20.09.2024

Revision: 20.09.2024

Product Name: 4FARMERS ABAMECTIN 18 EC

**Environmental Fate:** No information is available for the product. The following information refers to the active ingredient, abamectin. Abamectin binds tightly to soil with rapid degradation by soil microorganisms. Does not bioaccumulate.

DO NOT contaminate streams, rivers or waterways with Abamectin or the used containers.

**Spills and Disposal:** Persons involved in cleanup require adequate skin protection - see section 8. In case of spillage, contain and absorb spilled material with absorbent material such as clay, sand or cat litter and dispose of waste as indicated below or in accordance to the Australian Standard 2507- Storage and Handling of Pesticides. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

**Disposal of empty containers:** Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product. **EXPLOSION WARNING:** "EMPTY" containers may liquid and/or vapour residue which can be explosive if exposed to an ignition source at temperatures above 90°C. Such conditions may occur during cutting or welding. DO NOT cut or weld these containers

### 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. Dispose of contents/container in accordance with local/regional/national regulations. Break, crush or puncture and dispose of empty containers in a local authority landfill. Triple rinse and bury rinsate and empty capsules in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product must not be burnt

**EXPLOSION WARNING:** "EMPTY" containers may liquid and/or vapour residue which can be explosive if exposed to an ignition source at temperatures above 90°C. Such conditions may occur during cutting or welding. DO NOT cut or weld these containers

### 14 . TRANSPORT INFORMATION

<b>UN Number</b>	UN2902
<b>ADG, IMDG, IATA</b>	
<b>Proper Shipping Name</b>	PESTICIDE, LIQUID, TOXIC, N.O.S. (ISO)),
<b>ADG</b>	ENVIRONMENTALLY HAZARDOUS
<b>IMDG, IATA</b>	PESTICIDE, SOLID, TOXIC, N.O.S. (Fipronil (ISO))
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	6.1 Toxic substances.
<b>Packing Group:</b>	
<b>ADG, IMDG, IATA</b>	III
<b>Hazchem Code:</b>	2XE
<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

# SAFETY DATA SHEET

## According to Safe Work Australia

Printing date 20.09.2024

Revision: 20.09.2024

Product Name: 4FARMERS ABAMECTIN 18 EC

Portable Tanks &amp; Bulk Containers - Instructions: T1

Portable Tanks &amp; Bulk Containers - Special Provisions:

TP33

### 15 . REGULATORY INFORMATION

#### Australian Inventory of Chemical Substances:

151-21-3	sodium dodecyl sulphate
8061-51-6	Lignosulfonic acid, sodium salt
25322-68-3	Polyethylene glycol

#### Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

### 16 . OTHER INFORMATION

Date of Preparation or Last Revision: 20.09.2024

Prepared by: 4farmers Pty Ltd

#### 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)

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 Tox. (Oral) 3:

Acute toxicity, Hazard Category 3

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 1:

Specific target organ toxicity - Repeated exposure, Hazard 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 - December 2011"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. 4Farmers Australia Pty Ltd 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. 4Farmers Australia 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.