

# WELLFARM BIFENTHRIN 100 EC INSECTICIDE

**APVMA Product No:** 70288**Poison Schedule:** 6**Emergency Telephone Number:**

The Australian Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia)

Specialist Advice In An Emergency Only 1800 033 111 All Hours Australia Wide

In A Transport Emergency Dial 000 Police Or Fire Brigade

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Company:** Wellfarm Pty Ltd  
**Website:** www.wellfarm.com.au  
**Email:** info@wellfarm.com.au  
**Postal Address:** 22 Calypso Crescent, Point Cook, Vic 3030

**Product Name:** WELLFARM BIFENTHRIN 100 EC INSECTICIDE  
**Product Type:** Group 3A Insecticide  
**Formulation Type:** Emulsifiable Concentrate  
**Product Use:** Agricultural Insecticide

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Bifenthrin	82657-04-3	10%
Aromatic hydrocarbons	64742-94-5	56%
N-Methyl-2-pyrrolidone	872-50-4	5%
Other ingredients deemed not to be	Proprietary	To 100%

## 3. HAZARDS IDENTIFICATION

**HAZARDOUS SUBSTANCE. NONE DANGEROUS GOODS.**

Classified as hazardous according to the criteria of Safe Work Australia.

**Hazards** Xn - Harmful

**Risk Phrases** R22 - Harmful if swallowed.  
R36/37/38 - Irritating to eyes, respiratory system and skin.  
R61 - May cause harm to the unborn child.  
R65 - Harmful: May cause lung damage if swallowed.

**Safety Phrases** S2 - Keep out of reach of children.  
S23 - Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
S24 - Avoid contact with skin.  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
S53 - Avoid exposure-obtain special instructions before use.  
S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

# MATERIAL SAFETY DATA SHEET

## 4. FIRST AID MEASURES

<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
<b>Ingestion</b>	If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
<b>Skin</b>	Remove contaminated clothing and wash affected area thoroughly with soap and water. If irritation persists seek medical attention. Launder protective clothing before storage or re-use.
<b>Eyes</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical attention if symptoms persist.
<b>Note for Physicians</b>	As this product contains a hydrocarbon liquid, care should be taken to prevent pulmonary aspiration. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may

## 5. FIRE-FIGHTING MEASURES

**For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.**

<b>Suitable Extinguishing Media</b>	Water fog, foam, carbon dioxide or dry chemical.
<b>Hazardous Combustion Products</b>	Oxides of nitrogen and phosphorous.
<b>Firefighting Equipment</b>	Recommended use of self contained breathing apparatus and full protective equipment.
<b>Unusual Fire or Explosion Hazards</b>	This product is classified as a C1 combustible product. There is a slight risk of an explosion from this product if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.
<b>Hazchem Code</b>	Not allocated.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spills</b>	In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. Evacuate general area and deny access to unnecessary and unprotected personnel. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Collect spilled material in sealable container for disposal
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## 7. HANDLING AND STORAGE

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<b>Handling</b>	Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Provide adequate ventilation
<b>Storage</b>	Store in the closed, original container in a dry, well ventilated area, Do not store for prolonged periods in direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs. Store away from incompatible materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Standards (Safe Work Australia)</b>	<b>N-Methyl-2-pyrrolidone:</b> TWA: 25 ppm / 103 mg/m <sup>3</sup> STEL: 75 ppm / 309 mg/m <sup>3</sup>
<b>Engineering Controls</b>	Local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits.
<b>Respiratory Protection</b>	Usually, no respirator is necessary. If in doubt see Australian Standards AS/NZS 1715 and 1716 for more information.
<b>Eye Protection</b>	Protective glasses or goggles and face shield. See Australian Standards AS 1336 and AS/NZS 1337 for more information.
<b>Skin Protection</b>	Impervious elbow-length gloves and protective clothing. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information.
<b>Hygienic Practices</b>	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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Light brown liquid
<b>Odour</b>	Aromatic hydrocarbon odour
<b>Solubility in water</b>	Emulsifiable
<b>Boiling Point</b>	Not applicable
<b>Freezing Melting Point</b>	Not applicable
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (Air = 1)</b>	Not applicable
<b>Specific Gravity</b>	0.905
<b>Flash Point</b>	68°C
<b>Flammable Limit – Lower</b>	No information available.
<b>Flammable Limit – Upper</b>	No information available.
<b>Autoignition</b>	No information available.

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions of storage and use.
<b>Incompatible Materials</b>	Strong acids, bases and oxidising agents
<b>Hazardous Decomposition products</b>	Oxides of carbon and nitrogen
<b>Hazardous Polymerization Conditions to Avoid</b>	Will not occur. High temperatures, open flame, sparks and sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicity</b>	<b>Bifenthrin:</b> Oral LD <sub>50</sub> (rat) = 54 - 70 mg/kg
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Skin LD50 (rabbit) > 2000 mg/kg

Bifenthrin is moderately toxic to mammals when ingested. Large doses may cause incoordination, tremor, salivation, vomiting, diarrhoea, and irritability to sound and touch.

Bifenthrin does not sensitize the skin of guinea pigs. Although it does not cause inflammation or irritation on human skin, it can cause a tingling sensation which lasts about 12 hours. It is virtually non-irritating to rabbit eyes.

**Reproductive Effects:** The dose at which no toxic effect of Bifenthrin is observed on the mother (maternal toxicity NOEL) is 1 mg/kg/day for rats and 2.67 mg/kg/day for rabbits.

**Teratogenic Effects:** No

**Mutagenic Effects:** Inconclusive

**Carcinogenic Effects:** The EPA has classified bifenthrin as a class C carcinogen, a possible human carcinogen.

**Organ Toxicity:** Pyrethroids are poisons that affect the electrical impulses in nerves, over-stimulating nerve cells causing tremors and eventually causing paralysis.

**N-Methyl-2-pyrrolidone:**

Oral LD50 (rat) = 3914 mg/kg

Oral LD50 (mouse) = 7725 mg/kg

Skin LD50 (rabbit) = 8000 mg/kg

Skin, eye and respiratory irritant. May cause harm to the unborn child.

N-Methyl-2-pyrrolidone is classified as toxic to reproduction fertility - Repr. Cat. 2 by Safe Work Australia.

**Aromatic hydrocarbons:**

Frequent or prolonged contact with the hydrocarbon solvent in this product may defat and dry the skin, leading to discomfort and dermatitis. The aromatic hydrocarbons may cause central nervous system depression and narcosis

## Routes of Exposure Acute Health Effects

Inhalation, ingestion, eye and skin

Inhalation: May cause irritation to mucous membranes and respiratory tract.  
High vapour concentrations may be irritating to the respiratory tract, may cause headaches, drowsiness and dizziness, could be anaesthetic and may have other central nervous system effects.

Ingestion: Harmful if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

Eye: May cause eye irritation. Symptoms may include stinging, reddening and watering of eyes. Lengthy exposure or delayed treatment may cause permanent damage.

Skin: Can cause skin irritation.

## Chronic Health Effects Existing Conditions Aggravated by Exposure Carcinogenicity

No information available.

Repeated exposure may cause skin dryness or cracking.

No (NTP, Safe Work Australia)

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity and Mobility

**Bifenthrin:**

**Aquatic organisms:**

LC50 (Rainbow trout) = 0.00015 mg/L – 96h

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LC50 (Bluegill) = 0.00035 mg/L – 96h

Bifenthrin is very highly toxic to fish, crustaceans and aquatic animals.

**Birds:**

LD50 (Bobwhite quail) = 1800 mg/kg

LD50 (Mallard ducks) = 2150 mg/kg

Bifenthrin is moderately toxic to many species of birds. There is a concern about possible bio accumulation of bifenthrin in birds.

LD50 >100 µg/bee

Bifenthrin is toxic to bees.

**Environmental fate:**

This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods and containers</b>	Instructions concerning the disposal of this product and its containers are given on the product label. Dispose according to applicable local and state government regulations.
<b>Special precautions for landfill or incineration</b>	Please consult your state Land Waste Management Authority for more information.

## 14. TRANSPORT INFORMATION

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

<b>UN Number</b>	Not applicable
<b>Proper Shipping Name</b>	Not applicable.
<b>Dangerous Goods Class</b>	Not applicable
<b>Hazchem Code</b>	Not applicable
<b>Packing Group</b>	Not applicable
<b>Special Precautions</b>	Not applicable

## 15. REGULATORY INFORMATION

Bifenthrin, aromatic hydrocarbons and N-methyl-2-pyrrolidone are listed in the Australian Inventory of Chemical Substances (AICS).

**SUSDP Classification: S6**

## 16. OTHER INFORMATION

All information contained in this document is as accurate as possible based on information submitted by raw material suppliers. Wellfarm Pty Ltd will NOT be responsible for any damages that may result from reliance on the information contained herein.

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