

# **SAFETY DATA SHEET**

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

### Section 1. Identification of the material and the supplier

Product: Avia

Product Use: Insecticide

Restriction of Use: Refer to Section 15

New Zealand Supplier: Adria Crop Protection Solutions

Address: 407 State Highway 16

Kumeu 0841, Auckland

Telephone: +64 9 412 9817 Fax: +64 9 412 9807 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)3

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 14 March 2023 v2

## Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: HSR100508** 

**Pictograms** 







Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H423	Hazardous to soil organisms
Hazardous to terrestrial vertebrates	H432	Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates	H441	Hazardous to terrestrial invertebrates

<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
	unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Refer to Section 13.

# Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Bifenthrin	8.16	82657-04-3

## Section 4. First Aid Measures

#### Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Obtain medical attention if pain,

blinking or redness persist.

If on Skin Immediately flush body and clothes with large amounts of water. Remove

contaminated clothing and footwear. Gently wash affected areas with soap and water. If a large area is affected or if irritation persists, seek medical

assistance.

If Swallowed If swallowed, rinse mouth with water (only if the person is conscious). DO

NOT INDUCE VOMITING. For advice, contact the National Poisons Centre

on 0800 POISON (0800 764766) or a doctor immediately.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes

difficult.

## Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** Harmful if swallowed.

**Inhalation:** Not applicable.

**Skin:** Causes skin irritation. May cause an allergic skin irritation.

**Eye:** Causes serious eye irritation.

**Chronic:** May cause damage to organs through prolonged or repeated exposure.

**Treatment:** No known specific antidote. Treat symptomatically (decontamination, vital

functions). Stomach lavage or saline laxative may be considered.

#### Section 5. Fire Fighting Measures

Hazard Type	This product is not flammable.
Hazards from combustion products	Toxic fumes that may be released during fire: Carbon oxides, hydrogen chloride and -fluoride may be released during fire.
Suitable	Make use of water, foam, dry chemical, or carbon dioxide to
Extinguishing media	extinguish fires.
Recommended	Wear SCBA and chemical-protective clothing.
protective clothing	
& Precautions for	
firefighters	
HAZCHEM CODE	<b>3Z</b>

#### Section 6. Accidental Release Measures

#### **Personal precautions:**

Use protective clothing as per Section 8. Avoid contact with skin, eyes and clothing.

### **Environmental precautions:**

Cover or dyke spill and prevent spreading. Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

# **Spill and Disposal procedures:**

Absorb spills with inert material, vacuum, shovel or pump spilled material and place in waste containers. Prevent material from entering waterways. Wash area with water and absorb with further inert material. Dispose of waste safely, according to Local Council regulations.

### Section 7. Handling and Storage

#### **Precautions for Handling:**

- Read carefully and follow all instructions.
- Do not breathe fumes, vapours or spray.
- Ensure adequate ventilation.
- Cleaning water should be disposed of in appropriate manner.
- · Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

#### **Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Keep out of reach of children.
- Store in original container tightly closed and in a locked, cool, dry, ventilated area away from foodstuffs, fertilisers and seeds and sunlight.
- Keep out of reach of children and away from uninformed persons.
- Protect from extreme temperatures above 40°C.

## **WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

TWA STEL Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

# **Engineering Controls / Industrial Hygiene**

Ensure adequate ventilation. Emergency eye wash stations and safety showers should be available in the immediate vicinity of any potential exposure.

### **Personal Protection Equipment**



Eyes	Wear safety goggles with side-shields or full-face shield.	
Hands	Wear suitable gloves resistant to chemical penetration e.g. nitrile rubber	
	gloves with a minimum thickness of 0.4 mm.	
Skin	Body protection (chemical protection suit, boots) must be chosen depending	
	on activity and possible exposure.	
Respiratory	Wear respiratory protection if ventilation is inadequate. Particle filter with	
	medium efficiency for solid and liquid particles.	
General	Keep away from food, drink and animal feedstuffs. No eating, drinking or	
	smoking during use. Wash hands and face before breaks and after work.	

## **Section 9** Physical and Chemical Properties

Appearance	Liquid
Colour	Beige
Odour	Characteristic
Odour Threshold	Not available
pH	7 - 8
<b>Boiling Point</b>	Not available
Melting Point	> 100°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower	Not explosive
<b>Explosive Limits</b>	
Vapour Pressure	Not available
Vapour Density	Not available
Density	± 984 g/L
Water Solubility	Not available
Partition Coefficient:	Not available
Ignition Temperature	Not available
Decomposition	Not available
Temperature	
Kinematic Viscosity	Not available
<b>Particle Characteristics</b>	Not available

# Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.	
Possibility of hazardous	None known.	
reactions		
Conditions to Avoid	Avoid excessive temperatures.	
Incompatible Materials	None known.	
<b>Hazardous Decomposition</b>	None known.	
Products		

# Section 11 Toxicological Information

### **Acute Effects:**

Swallowed	Harmful if swallowed. LD50 > 500 mg/kg, rat.
<b>Dermal</b> Not applicable. LD50 >2000 mg/kg, rabbit	
Inhalation	Not applicable. LD50 >10 mg/L/hr
<b>Eye</b> Causes serious eye irritation.	
<b>Skin</b> Causes skin irritation. May cause an allergic skin read	

#### **Chronic Effects:**

Carcinogenicity	Not applicable.	
Reproductive Toxicity	Not applicable.	
Germ Cell Mutagenicity	Not applicable.	
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE May cause damage to organs through prolonged or repeate		
	exposure.	

## **Acute Toxicity -**

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Product			
Bifenthrin (82657-04-3)	43 mg/kg (Mouse)	-	10-20mg/l

# **Section 12. Ecotoxicological Information**

<b>Ecological effects information</b>	Very toxic to aquatic life with long lasting effects	
	Hazardous to soil organisms	
	Hazardous to terrestrial vertebrates	
	Hazardous to terrestrial invertebrates	
Persistence and degradability	No data available	
Bioaccumulation	No data available	
Mobility in Soil	No data available	
Other adverse effects	No data available	
Acute fish toxicity:	LC50 (96 h) >0.15 ug/L	
Toxicity for daphnia:	LC50 (48 h) >0.16 ug/L	
Toxicity to algae:	EC50 > 5 mg/L	
Precautions:	Do not allow to enter waterways.	

# **Section 13. Disposal Considerations**

## **Disposal Method:**

When emptying container, triple rinse and add remaining material to spray tank. Return the empty container to an AgRecovery collection point for disposal.



Product Name: Avia SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 14 March 2023 Tel: 64 9 475 5240 www.techcomp.co.nz

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### **Empty container precautions:**

Avoid contamination of any water supply with chemical or empty container.

**Precautions or methods to avoid:** Avoid release to the environment.

### Section 14 Transport Information

### This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



# Road, Rail, Sea and Air Transport

UN No	3082	
Class - Primary	9	
Packing Group	III	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
	N.O.S (Bifenthrin)	
Marine Pollutant	Yes	
Special Provisions-	If the product's individual container is below 5L/kg, it can be	
Limited Quantities	transported as a non-DG as long as the product packaging is still	
	labelled as per DG requirements and the driver is given safety	
	information in accordance with Chapter 3.4 of the UNRTDG.	

# **Section 15** Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR100508

HSW (HS) Regulations 2017	Trigger Quantity			
Certified Handlers	Not required			
Signage Trigger Quantities (Schedule 3)	100Kg			
Emergency Response Plan (Schedule 5)	100Kg			
Secondary Containment (Schedule 5)	100Kg			
Tracking (Schedule 26)	Not required			
For all further controls	Refer to EPA website (www.epa.govt.nz) for controls document - HSR100508			
HSNO Additional Controls (Restrictions of use)				
A maximum application rate is set for this	Avia shall be applied at a maximum rate of			
substance	62.5 mLs per 100M2 of surface area.			
77A	Avia is restricted to indoor use only.			
77A	This substance must not be applied onto or into water.			
77A	The method of application of the substance shall be limited to ground-based application only.			
77A	This substance shall not be used on			
	structures where food for human			
	consumption is being produced.			
ACVM Act and Regulations				
ACVM Approval No	Not applicable.			

#### Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

### Glossary

EC<sub>50</sub> Median effective concentration. EEL Environmental Exposure Limit. EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD<sub>50</sub> Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level WES Workplace Exposure Limit

#### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.

3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).

4. Transport of Dangerous goods on land NZS 5433:2020

5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

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Please contact Adria, if further information is required.

Issue Date: 14 March 2023 Review Date: 14 March 2028