



MATERIAL SAFETY DATA SHEET

AVI – SIPERMETRIN 200 g /ℓ

1. COMPANY DETAILS:

Name: Avima (Pty) Ltd
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2. PRODUCT IDENTIFICATION:

Trade Name: Avi – Sipermetrin EC 200 g /ℓ
Chemical Family: Pyrethroid
Chemical Name: (RS)- α-cyano-3-phenoxybenzyl (1RS, 3RS; 1RS,3SR)-3-(2,2-dichlorovinyl)-
=2,2-dimethylcyclopropanecarboxylate
Molecular Formula: (C₂₂H₁₉Br₂NO₃)
UN Nr.: 2902 (Formulated Product)
C.A.S. Nr.: 52918 –63 –5 (Active Ingredient)

3. COMPOSITION:

Hazardous Components:	Cypermethrin Technical	20.00	%
Emulsifiers	1.20	%	
	Aromatic Solvents	78.80	%

4. PHYSICAL AND CHEMICAL CHARACTERISTICS:

Appearance: Slightly yellow liquid
Odour: Aromatic odour
Density @ 20 °C: 0.873 kg /ℓ
Viscosity @ 20 °C: 1.67 mm²/s (ASTM Method)
Viscosity @ 20 °C: 3.5 cPs (Brookefield Method)
Flashpoint: 25 °C
Stability @ 54 °C after 14 days: Stable

5. FIRE AND EXPLOSION HAZARD:

Flash Point:	25 °C
Flammability:	Not available
Auto ignition Temperature:	Not available
Decomposition Temperature:	Not available
Acute Hazards:	Formulation contains organic solvents
Special fire fighting procedures:	Use water to keep fire exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures. Prevent run –off from fire control or dilution from entering streams, sewers, or drinking water supply.
Special protective equipment:	Do not breathe fumes. For fires in enclosed areas, fire fighters must use self –contained breathing apparatus, as well as full protective gear.
Hazardous decomposition products:	Toxic fumes including Hydrogen cyanide, Hydrogen bromide, Carbon monoxide.

6. REACTIVITY DATA:

Stability:	Stable
Conditions to avoid:	Heat, sparks, flame and build up of static electricity, spillage onto roadways, etc.
Incompatibility: (Materials to avoid)	Strong oxidizers
Hazardous decomposition products:	Carbon monoxide, Hydrogen cyanide, Hydrogen bromide.

7. WARNINGS:

Store away from food and feedstuffs.
Keep under lock and key.
Keep out of reach of children, uninformed persons and animals.
Harmful if swallowed, by contact or inhalation.
Flammable liquid.

8. HEALTH HAZARD DATA: (Acute Hazards & Symptoms)

Effects of overexposure:	Respiratory irritation, dizziness, nausea, loss of consciousness.
Inhalation:	Burning sensation, cough, dizziness. A stuffy runny nose and scratchy throat. Sudden headache, nausea, bronchospasm, swelling of oral and laryngeal mucous membranes and shock (anaphylaxis). Nervous irritability, tremors and ataxia. Cough, fever and chest pain (Hydrocarbon pneumonitis).

8. HEALTH HAZARD DATA: (Acute hazards & Symptoms) continue:

- Skin:** Prolonged repeated skin contact may de-fat the skin, resulting in possible irritation and dermatitis. Redness. Burning skin sensation. Itching. A stuffy runny nose and scratchy throat. Sudden headache, nausea, bronchospasm, swelling of oral and laryngeal mucous membranes and shock (anaphylaxis). Nervous irritability, tremors and ataxia. Cough, fever and chest pain (Hydrocarbon pneumonitis).
- Eyes:** Redness. Pain.
- Ingestion:** Abdominal pain, vomiting, burning sensation, coughs, dizziness, headache, and nausea. A stuffy runny nose and scratchy throat. Sudden headache, nausea, bronchospasm, swelling of oral and laryngeal mucous membranes and shock (anaphylaxis). Nervous irritability, tremors and ataxia. Cough, fever and chest pain (Hydrocarbon pneumonitis).

9. EXPOSURE CONTROLS /PERSONAL PROTECTION:

- Inhalation:** Avoid inhalation of spray mist. Use only in well –ventilated areas, in case of insufficient ventilation, wear suitable respiratory equipment. Approved respiratory equipment must be used when vapour or mists concentrations exceed applicable standards.
- Skin:** Wear protective clothing, as well as protective gloves. Launder contaminated clothing before re –use. Avoid skin contact. Keep working clothes separately and do not take home.
- Eyes:** Good personal hygiene practices should always be followed. Avoid contact with eyes. Wear eye /face protection. When handling this product, wear goggles giving completely eye protection. Normal industrial eye protection practices should be employed.
- Ingestion:** Keep away from food and feedstuffs. Do not eat, drink or smoke whilst handling this product. Wash hands and face before eating and drinking.

10. FIRST AID MEASURES:

- Inhalation:** Remove patient from further exposure to fresh air. If respiratory irritation, dizziness, nausea or unconsciousness occurs or persists, seek medical attention. If breathing has stopped, apply artificial respiration.
- Skin:** Remove contaminated clothing and shoes.
Wash contaminated skin with plenty of soap and water.
Launder contaminated clothing before re –use.
- Eyes:** First, rinse with plenty of water for at least 15 minutes.
Seek medical attention if irritation persists.
- Ingestion:** If large amounts have been ingested, the stomach and intestine must be evacuated.
SEEK MEDICAL ASSISTANCE.

NOTE TO PHYSICIAN:

- * For life –threatening allergic reaction (severe asthma or anaphylaxis), give 0.1 to 0.5 ml of 1: 1000 adrenaline intramuscularly or slowly intravenously. Repeat if necessary to relieve respiratory distress and maintain blood pressure. Intravenous Aminophylline (10 ml, slowly) may be indicated. Give hydrocortisone (50 –100 mg), or equivalent steroid intravenously.

10. FIRST AID MEASURES: continue

Less severe allergic reaction (rhinitis) can be managed with antihistamines and decongestants, given orally.

- * If victim is alert and respiration is not depressed, give Syrup of Ipecac, followed by 1 –2 glasses of water, to induce vomiting (adults and children 12 years and older: 30 ml; children under 12 years: 15 ml).

Caution: Observe victim closely after administering Ipecac. If consciousness level declines or vomiting has not occurred in 15 minutes, intubate stomach immediately.

Following emesis, have victim drink a suspension of 30 –50 g activated charcoal in 90 –120 ml water to limit absorption of toxicant, remaining in the gut.

- * Diazepam (Valium), 5 –10 mg in adults, 0.1 mg /kg in children, given orally or slowly iv., should control nervousness and tremors in rare cases having these symptoms after extraordinary exposure to product.
- * Material, if aspirated into lungs may cause chemical pneumonitis. Treat appropriately.

11. ACCIDENTAL RELEASE MEASURES:

Notification procedures: Report spills as required to appropriate authorities.

Procedures if material is released or spilled:

Absorb on fire retardant treated sawdust, diatomaceous

earth, sand, peat sorb, etc. Shovel in and dispose of at an appropriate waste disposal facility, in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

Environmental Precautions:

Prevent spills from entering storm sewers or drains and contact with soil.

12. HANDLING AND STORAGE:

Suitable Material:

200 l Steel drums, Plastic drums and bottles.

Handling /storage precaution: Avoid prolonged repeated skin contact. Do not contaminate water, food or feed by storage or disposal. Store in a secure, dry, well –ventilated separate room, building or covered area. Not for use or storage on or around home. Keep away from sources of ignition and protect from exposure to fire and heat separate from incompatible materials. Do not allow entering public sewers and water sources. If contamination of drainage systems or water sources, is unavoidable, inform the appropriate authorities immediately.

13. DISPOSAL CONSIDERATION:

Waste disposal: Rinse empty container 3 times and destroy by perforation or flattening, and do not use for any other purpose. Product should be utilized completely to avoid disposal. If not possible, dispose of at an appropriate waste disposal facility, in accordance with current applicable laws and regulations.

14. TRANSPORTATION DATA:

Hazardous Description Label: Pyrethroid Pesticide, liquid, toxic, flammable.
Keep away from foodstuff.
Flammable liquid.
Do not transport with food and feedstuffs.

UN Hazard Class: 6.1

UN Packing Group: III

IMO: Shipping Name: Flammable liquids. (contain HEAVY AROMATIC and MEDIUM ALIPHATIC PETROLEUM SOLVENTS)
Label(s): Flammable liquid.
Poison

ICAO/IATA: Shipping Name: Flammable liquids. (contain HEAVY AROMATIC and MEDIUM ALIPHATIC PETROLEUM SOLVENTS)
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15. ENVIRONMENTAL DATA:

The product is toxic to bees and aquatic organisms. Avoid release into environment in circumstances different to normal use.

16. OTHER INFORMATION:

HARMFUL OR FATAL IF SWALLOWED.

HARMFUL IF INHALED.

MAY CAUSE SKIN IRRITATION ON PROLONGED, REPEATED SKIN CONTACT.

AVOID BREATHING OF VAPOUR OR MIST.

KEEP AWAY FROM HEAT OR FLAME.

KEEP CONTAINER CLOSED.

USE WITH ADEQUATE VENTILATION.

AVOID WEARING OF CLOTHING SOAKED WITH CHEMICAL.

16. OTHER INFORMATION: continue

FIRST AID: IF SWALLOWED CALL A DOCTOR IMMEDIATELY.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION AND CALL A DOCTOR.
IN CASE OF SKIN CONTACT, WASH CONTAMINATED AREAS WITH SOAP AND WATER.
REMOVE CONTAMINATED CLOTHING. WASH BEFORE RE –USE.

ATTENTION:
EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUE, INCLUDING FLAMMABLE OR EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR OPEN CONTAINER. ALL LABEL WARNINGS AND PRECAUTIONS MUST BE OBSERVED UNTIL THE CONTAINER HAS BEEN THOROUGHLY CLEANED OR DESTROYED.

REFER TO PRODUCT MATERIAL SAFETY DATA SHEET FOR FURTHER SAFETY AND HANDLING INFORMATION.