



MATERIAL SAFETY DATA SHEET AVISPRAY AEROSOL

COMPANY DETAILS:

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1. PRODUCT IDENTIFICATION:

Trade Name: Avimatic Aerosol
Chemical Family: Pyrethroid pesticides
Chemical Name: Blend of Pyrethrins, Piperonyl Butoxide
PYRETHRINS
(Z)-(S)-2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl(1R)-trans-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropane carboxylate. (Pyrethrin I)
Pyrethrin I: C₂₁H₂₈O₃; Cinerin I: C₂₀H₂₈O₃; Jasmolin I: C₂₁H₃₀O₃ (Technical)
PIPERONYL BUTOXIDE
S-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole
C₁₉H₃₀O₅ (Technical)
UN Nr: 1950
C.A.S. Nr: 8003-34-7 (Pyrethrum)
51-03-6 (Piperonyl Butoxide)
IMCO: II

Description of product:

A space spray aerosol insecticide for control of flies, mosquitoes and moths. A direct contact spray for the control of fleas, fish moths, cockroaches and bedbugs.

2. COMPOSITION:

Hazardous Components:	Pyrethrin	3 g/kg
	Piperonyl Butoxide	18 g/kg
	Propane – Butane ozone friendly gas + perfume + Aliphatic solvents	970 g/kg

3. PHYSICAL AND CHEMICAL CHARACTERISTICS:

Appearance:	Clear yellow liquid
Odour:	Strong pyrethrum
Delivery Rate:	0.3 g /second
Flammability:	Flammable
Corrosiveness:	May stain surfaces

4. FIRE AND EXPLOSION HAZARD:

Flash Point:	Not available
Flammability:	Flammable – explosion hazard in case of fire
Auto ignition Temperature:	Not available
Decomposition Temperature:	Not available.
Acute Hazards:	Combustible. Avoid all ignition sources. Internal pressure = 100 kPa. Do not expose container to temperatures above 50°C, direct sunlight, radiators, etc. May form explosive mixture with air, particularly in empty, unclean receptacles. Bursting aerosols can be forcibly projected from a fire.
Special fire fighting procedures:	Apply cold water in order to cool containers exposed to danger. Water or foam may cause frothing. Water spray may be used to flush spills away from exposure. Prevent run off from fire control or dilution from entering streams, sewers, or drinking water supply. Use low –sparking hand tools and explosion –proof electrical equipment. If possible, fight fire from protected position. Remove or make safe all sources of ignition.
Special protective equipment:	The gas is heavier than air and spread along the ground. Do not breathe fumes. For fires in enclosed areas, fire fighters must use self –contained breathing apparatus.
Hazardous decomposition products:	Carbon Monoxide.
Fire extinguishing media:	Carbon dioxide, foam, dry chemical powder.
Unsuitable extinguishing media:	Water jets.

5. REACTIVITY DATA:

Stability: (thermal, light, etc.)	Do not expose container to temperatures above 50°C, direct sunlight, radiators, etc. Heating will cause pressure rise, severe risk of bursting and subsequent explosion.
Conditions to avoid:	Extreme heat. The material is volatile. Prolonged storage at elevated temperatures may interfere with quality. Sensitive to light, air sensitive.

Compatibility: Keep away from plastic, painted surfaces.
(Materials to avoid)

Hazardous decomposition products: Carbon monoxide will form when heated to decomposition.

6. WARNINGS:

Do not puncture or incinerate the can.
Avoid excessive contamination of food utensils and drinking water.
Keep out of reach of children, uninformed persons and animals.
Avoid prolonged inhalation and cover fishbowls and water.

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

Potential Health effects and main symptoms:

Chronic or overexposure: Inhalation of vapor can produce headache, drowsiness, dizziness, anesthetic effect and central nervous system depression. If exposure is prolonged, unconsciousness.

Inhalation: Vapor may be irritant to mucous membranes and respiratory tract. Inhalation of vapor can result in headache, dizziness and possible nausea.

Skin: Contact with skin can result in irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

Eyes: May be irritant.

Ingestion: Concentrate may cause nausea, vomiting and diarrhea, dizziness, narcosis and lung damage.

8. 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 (long sleeve shirt & pants) as well as protective gloves (solvent resistant gloves). Launder contaminated clothing before re-use. Avoid skin contact. Keep working clothes separately and do not take home. Good personal hygiene practices should always be followed. Provide local emergency shower.

Eyes: Avoid contact with eyes. Wear eye & face protection (safety glasses & face shields). When handling this product, wear goggles giving completely eye protection. Normal industrial eye protection practices should be employed. Provide emergency eye wash stations.

Ingestion: Store away from food & feedstuffs. Do not eat, drink or smoke whilst handling this product. Wash hands & face after handling the product, before eating and drinking.

9. FIRST AID MEASURES:

- Inhalation:** Remove from exposure to fresh air, call physician, and administer oxygen if breathing is labored.
- Skin:** Wash contacted areas with soap and water. Remove contaminated clothing and wash before re-use.
- Eyes:** Flush with copious amounts of water for 15 minutes. Obtain medical advice immediately.
- Ingestion:** Do not induce vomiting: Rinse mouth with water. Have victim drink 240 –300 mL water. If vomiting occurs, have victim lean forward to reduce risk of aspiration. Obtain medical attention.

SEEK MEDICAL ADVICE PROMPTLY AND SHOW THIS MSDS TO A MEDICAL PRACTITIONER

10. 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 up and dispose of at an appropriate waste disposal facility, in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

Methods for cleaning up:

Isolate spill area and stop leaks if possible without risk.

Small spill and leak:

Avoid inhalation of vapours. Collect and seal in properly labeled drums for disposal.

Large spill and leak:

Contain, prevent run off into drains, and waterways. Absorb with sand, earth or sawdust. Remove to safe area for disposal. Flush residue with large quantity of water. Use flameproof equipment.

Environmental Precautions:

Prevent entry into waterways, sewers, drains, basements or confined areas.

Additional Instructions:

Spillage or uncontrolled discharges into water sources must be alerted to the Department of Water Affairs and other appropriate regulatory bodies.

11. HANDLING AND STORAGE:

- Handling:** Normal hygiene practices. Do not breathe gas, fumes, vapour or spray. Avoid contact with skin and eyes. Keep away from incompatibles.
- Storage:** Store away from sources of ignition. Do not store unlabelled. Store away from strong oxidizing agents or combustible material. Store at ambient temperatures.

12. DISPOSAL CONSIDERATION

Waste disposal: Product should be utilized completely to avoid disposal.

13. TRANSPORTATION DATA:

Hazardous Description Label:	AEROSOLS, flammable.
UN Number:	1950
Class:	2.1
Sub risk:	●
Packing Group:	III
Internal pressure (SABS method 568) @ 54 degrees Celsius:	100 kPa
IDMG:	2013
Declaration for land shipment:	1950 Aerosols, Flammable
Declaration for sea shipment:	1950 Aerosols, Flammable
Declaration for shipment by air:	1950 Aerosols, Flammable

14. ENVIRONMENTAL DATA:

The product may be toxic to aquatic life, but keep away from waterways, sewers, drains, basements and confined spaces.

15. TOXICOLOGICAL INFORMATION:

No adequate data for evaluation of carcinogenicity to humans.
Acute Oral: 59166 – 11666 mg/kg
Acute Dermal: 125000 mg/kg

16. OTHER INFORMATION:

May cause skin irritation on prolonged, repeated skin contact.
Avoid direct breathing of vapor or mist.
Keep away from heat or flame.
Use with adequate ventilation.
Empty containers to be disposed of in accordance with local/national regulations. Do not re-use for any other purpose. Do not burn.

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