



## Material Safety Data Sheet

### Manufacturer/information service:

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Bifenthrin 8% W/V SC

Recommended use: Agricultural insecticide.

Hazard classification: Non-dangerous goods.

Safety phrases: When using do not eat or drink/smoke

Avoid contact with skin/eyes

Do not empty into drains/Dispose of material and container in a safe way

ADG Classification: Not a dangerous good

UN Number: None allocated

Substance	CAS Number	% content (w/v)
Bifenthrin	82657-04-3	8
Hydrocarbon solvents	-	76.3
Emulsifiers, dispersants	-	To 100%

Skin contact: Remove contaminated clothing. Wash contaminated skin with soapy water. If skin irritation develops, get medical attention. Wash clothing thoroughly before re-use. Eye contact: Rinse eye(s) with clean running water for 15 mins. Get medical attention. Ingestion: Rinse mouth. Give water to drink if patient is conscious. DO NOT induce vomiting. If vomiting occurs ensure patient can breathe, then give water to drink. Get medical attention. Advice to doctor: No specific antidote is known. Treat symptomatically.

Treat primarily as a petroleum combustion.

Suitable extinguishing media: Carbon dioxide, dry chemical, foam, water fog.

Unsuitable extinguishing media: Water stream.

Special hazards in fire: Product is flammable. Combustion may release carbon dioxide, nitrogen oxides, and/or chlorine compounds.

Required special protective equipment for fire-fighters: Wear self contained breathing apparatus if in enclosed space.

Emergency procedures: Wear protective equipment to prevent skin and eyes being affected. Evacuate unprotected and unnecessary personnel from area of spill.

If material is leaking from a container, stop the leak only if this can be done safely. Prevent spillage entering drains or watercourse.

Methods for containment & cleanup: Vermiculite, Sand, Soil is a suitable absorbent, especially soils high in clay. Soil can be used to form bunds to contain spillage. Contaminated soil should be collected for disposal at a suitable landfill. Contaminated area and tools should be washed down with hypochlorite bleach. Personal protective equipment and clothing should be washed with soapy water.

Handling: Keep away from food, drink, and animal feedstuff.

KEEP OUT OF REACH OF CHILDREN.

Wear suitable Personal protective equipment when handling and spraying.

Storage: Store in the original container in a dry, cool, ventilated, LOCKED area.

DO NOT store in prolonged sunlight.

DO NOT store with food, seed, or animal feedstuff.

National exposure standards: Not established. Use default of 10 mg/m<sup>3</sup>.

Biological limit values: ADI is 0.01 mg/kg/day. NOEL is 1.0 mg/kg/day.

Engineering measures: Use assisted ventilation in enclosed spaces if needed, especially storage areas.

Personal protection equipment:

Eye/face protection: Goggles or glasses to AS 1366, AS/NZS1337

Hand/skin protection: Overalls, PVC gloves and apron, face shield

Respiratory protection: Should not be necessary under normal conditions. If spray mist may be encountered, a particulate filter to AS/NZS 1715 should be worn.

Chemical stability: Not likely to react or decompose in normal storage or use.

Conditions to avoid: Store below 30 °C. Avoid naked flames, other sources of ignition.

Materials to avoid: Not known.

Hazardous decomposition products: Primarily carbon dioxide. Possibly carbon monoxide and chlorine and fluorine compounds. Hazardous reactions: Will not polymerise.

Moderately toxic to mammals.

Acute toxicity: LD<sub>50</sub> (oral, rats) 50-70 mg/kg.

Chronic toxicity: NOEL (dogs, 1yr) 1.5 mg/kg/day.

Possible routes of exposure: Inhalation of spray mist is the most likely cause of exposure.

Range of effects. Excessive exposure may affect human health as follows:

Skin contact: Not generally irritating.

Inhalation/ingestion: Large doses may lead to tremors, vomiting, diarrhoea.

Delayed effects if any:

Relevant negative data: Non teratogenic in rats ( $\leq 2$  mg/kg/day) and rabbits (8 mg/kg/day)

Ecotoxicity:

Aquatic organisms: Highly toxic to fish, crustacea, invertebrates.

Flora: Not toxic to plants.

Fauna: Moderately toxic to birds, and probably to most vertebrates.

Soil organisms: No data.

Bees: Very toxic.

Long term: Moderately persistent, but not mobile.

Ozone effects: None recorded.

Persistence/degradation: Half life of weeks to months in soil. In water it is rapidly absorbed by soil colloids.

Mobility: Slight mobility in light sandy soils, none in loams and clays.

Bioaccumulative potential: Unknown but probably low.

Product: Whenever possible, product should be used for its intended purpose, even if reclaimed from spillage (reclaimed product must be uncontaminated).

Containers: Whenever possible, follow directions given on container. If not available, triple or pressure rinse plastic or metal containers before disposal. Recycle containers if possible (replace cap and return clean containers to recycler or designated collection point). Treat rinsings as for product above. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Sewage: Do not dispose of product or rinsings into sewage systems or septic tanks.

UN Number: None. UN proper shipping name: None. ADG Class & subsidiary risks: None.

ADG Packing Group: None.

Special precautions: Do not store with foodstuffs.