



MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Information

Product Name : ALPHACYPERMETHRIN TECHNICAL
Chemical Name : (RS)-alpha-cyano-3 phenoxybenzyl(1R, 3R)-3=(2,2-dichlorovinyl) - 2,2 dimethylcyclopropane Carboxylate
Chemical Formula : C₂₂H₁₉CL₂NO₃
Mol. Wt. : 416.3
Use : Insecticide for agricultural use
Company : HPM Chemicals & Fertilizers Ltd.
Address : 209-219, Anupam Bhawan, Azadpur Commercial Complex, Azadpur, Delhi- 110033
Telephone : (011)-45071800, 899
Fax : (011)- 27681800
Website : www.hpmindia.com
e-mail : info@hpmindia.com

2. Composition / Information on Ingredients

Chemical Name	CAS No	Concentration [%]
Alpha-Cypermethrin a.i.	67375-30-85	95.00 % Min.
Inert Ingredients	-----	Q.S. to 100

3. Hazards Identification

Hazard classification: Hazardous according to the criteria of NOHSC. Dangerous goods.

Risk phrases: R20 Harmful by inhalation.
R21/22 Harmful in contact with skin and if swallowed.
R65 Harmful – may cause lung damage if swallowed.

Safety phrases: S20/21 when using do not eat or drink/smoke.
S23 Do not breathe spray.
S24/25 Avoid contact with skin/eyes.
S29/35 Do not empty into drains/Dispose of material and container in a safe way

SUSDP Classification: S6

4. First Aid Measures

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. Vitamin E cream has proved useful for cases of skin contact.



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5. Fire Fighting Measures

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.

Hazchem code: 2X

6. Accidental Release Measures

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.

7. Handling and Storage

HANDLING PROCEDURES: KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Keep away from food, drink, and animal feedstuff. Wear suitable Personal protective equipment when handling and spraying.

STORING PROCEDURES: 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.

8. Exposure Controls/Personal Protection

National exposure standards: Not established for alpha-Cypermethrin. The solvent has recommended an occupational exposure limit of 100 mg/m³; 17ppm TWA, as total hydrocarbon.

Biological limit values: ADI for alpha-Cypermethrin is 0.05 mg/kg/day. NOEL is 4.7 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.



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9. Physical and Chemical Properties

Appearance:	White to light brown solid.
Odour:	Mild odour.
pH:	4.67.
Density:	1.280 (22 °C)
Boiling Point:	Decompose before boiling
Melting/Freezing Point:	< 78 °C
Flashpoint:	>90 °C
Flammability:	Non-Flammable

10. Stability and Reactivity

Chemical stability: Normally stable.

Conditions to avoid: Very high or low temperatures.

Materials to avoid: Strong oxidizing agents.

Hazardous decomposition products: Not known

Hazardous reactions: Not known. Does not polymerize.

11. Toxicological Information (Technical)

TOXICOLOGICAL INFORMATION:

Acute Oral Toxicity:	Rat: LD50: >400mg/kg
Acute Dermal Toxicity:	Rabbit: LD50: >2000mg/kg
Acute Inhalation Toxicity:	Rat: LC50: 2.7 mg/l
Skin Irritation:	Rabbit: Slightly irritating
Eye Irritation:	Rabbit: Slightly irritant
Chronic toxicity:	NOEL for dogs is 60 mg/kg in diet for 1 year (1.5 mg/kg body wt per day).
Delayed effects if any:	Not known. Is rapidly excreted from the body.

12. Ecological Information

ENVIRONMENTAL PRECAUTIONS:

Aquatic organisms: Highly toxic to fish and crustacean.

Flora: Low toxicity.

Fauna: Low to moderate toxicity.

Soil organisms: Low toxicity to worms or fungi, highly toxic to insects and arachnids.

Bees: Highly toxic.

Long term: Not expected. Native populations are recorded as recovering rapidly from spillage by recolonizing from outside areas. Even aquatic areas will recover quickly unless the area is small, and totally damaged.

Ozone effects: None recorded.

Mobility: Not readily leached.

Persistence/degradation: Moderately persistent in soil. Degrades with a half-life measured in weeks to months.



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13. Disposal Considerations

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 rinsing 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 rinsing into sewage systems or septic tanks.

14. Transport Information

UN Number:	3349
UN proper shipping name:	PYRETHROID PESTICIDE, SOLID, TOXIC
ADG Packing Group:	III
Hazchem code:	None.

15. Regulatory Information

Hazard Symbol:	The harmful symbol (Xn)
Risk phrases:	R10, R20/22, R43 R51/53, and R57
Safety Phrases:	S1/2, S13, S20/21, S36/37/39, S29/56

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are resented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS. Accordingly, no guarantee or warrantee expressed or implied is made by HPM Chemicals & Fertilizers Ltd., as to the results to be obtained based upon the user's use of the information, nor does HPM Chemicals & Fertilizers Ltd., assume any liability arising out of user's use of the information.

Prepared by: HPM Chemicals & Fertilizers Ltd., Safety Division
