



KAPI LIMITED

MANUFACTURERS & REFINERS

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE

Product name:	PALI 50 WP
Usage	Insecticide
Appearance	O White powder
Manufacturer / supplier	Tagros Chemicals India Limited

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component name	CAS No.	Conc. % w/w
Deltamethrin a.i.	52918-63-5	5.0
Other	-----	95.0

3. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

Eyes	Mild-irritant
Skin	In severe cases, may cause a transient, localized paresthesia, characterized by tingling, burning or numbness sensation in some individuals
Ingestion	Can cause stomach irritation resulting in nausea, cramps and vomiting. Large doses may cause nasal and respiratory irritation
Inhalation	Excessive inhalation can cause nasal and respiratory irritation
Ecological	Toxic to sh and aquatic organisms

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4. FIRST AID MEASURES

- Eyes** Remove immediately with clean water for at least 15 minutes and obtain medical aid
- Skin:** Wash with plenty of soap and water. Get medical attention if irritation persists. Cold cream or a moisturizing cream has been successful in diminishing the sensations associated with localized paresthesia.
- Ingestion** Wash out mouth with water. Induce vomiting only if medical treatment is not readily available, the patient is fully conscious and the time since ingestion is less than one hour. Keep patient at rest and seek medical advice.
- Inhalation** If inhaled, remove to fresh air and keep at rest. Obtain medical aid if at all worried.

5. FIRE FIGHTING MEASURES

- Flash point** Non flammable
- Extinguishing media** CO₂, dry chemical, foam or water
- Special exposure hazards** May give o toxic fumes if heated to decomposition
- Protective equipment for reghting** Do not breathe fumes. Wear self contained breathing apparatus
- Fire ghting guidance** As in any re, wear self-contained apparatus pressure-demand, NIOSH approved (or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing as detailed in section 8.
- Environmental precautions** Keep people and animals away. Prevent entry into drains, sewers and watercourses.
- Spillage** Contain / absorb spillage in sand / earth or in a suitable inert material. Transfer collected material to heavy-duty plastic drums and keep safe for disposal.

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7. HANDLING AND STORAGE

Handling	Wear chemically impervious gloves such as neoprene or nitrile. Wear safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Read and observe all precautions and instructions on the label.
Storage	Store in original containers, upright and closed. Store in areas that are cool, dry and well ventilated. Store away from seeds, fertilizers and animal feed stuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	Mechanical ventilation should be used when handling this product in closed spaces
Respiratory protection	NIOSH approved organic vapor respirator in absence of mechanical ventilation
Hand protection	Wear chemical resistant PVC or nitrile gloves
Eye protection	Wear safety goggles with imperforated side shield or goggles
Other	Wear PVC or chemical resistant disposable overalls and PVC boots

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Wettable Powder
Colour	Off-white
Odour	Odourless
Density	0.52 g/ml
PH	4.5 to 7.5
Boiling point	Not applicable
Melting point	N/A
Flash point	Non flammable
Solubility in water	Miscible with water

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Vapor pressure N/A

10. STABILITY AND REACTIVITY

Stability Stable for two years at ambient temperature

Materials to avoid None under normal condition of use.

11. TOXICOLOGICAL INFORMATION

Acute studies

Eye	Acute eye irritation in rabbits	Mild- irritant
Skin	Dermal sensitization in Guinea pigs	Non –sensitizer
	Acute dermal LD50 rat	>2000 mg/kg body weight
Ingestion	Acute oral LD50 rat	>2000 mg/kg body weight
Inhalation	Acute inhalation LC50 rat	> 1.09 mg/l of air

Long term studies

Carcinogenicity	Non carcinogenic in rat and mice
Mutagenicity	Non-mutagenic. Did not cause any chromosomal eects Did not cause any DNA single strand damage.
Reproductive toxicity	No teratogenic effects

12. ECOLOGICAL INFORMATION

Toxic eects on organisms

Fish	Based upon the mortality data 24, 48, 72 and 96 h LC50 of Deltamethrin Technical for Poecilia reticulata were determined as > 3.79, >3.79, 2.53 and 1.74 g/l respectively.
Aquatic invertebrates	The 24 h EC50 of Deltamethrin Technical forn Daphnia magna was calculated as 4.15 g/l.

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13. DISPOSAL CONSIDERATIONS

Product disposal	Disposal of product would usually be by incineration in an appropriate licensed commercial incinerator. Advice may be obtained from local waste regulation authorities.
Container disposal	Lightly contaminated packaging may be accepted for landfill, otherwise incineration will be required.

14. TRANSPORT INFORMATION

Proper shipping Name	PYRETHROID PESTICIDE, SOLID, TOXIC
UN number	3349
UN class	6.1
UN packaging group	III

15. REGULATORY INFORMATION

CAS No	52918-63-5
Component name	Deltamethrin

The following precautions appear in the 'PRECAUTIONS' section of label / leaflet

WASH HANDS AND EXPOSED SKIN AFTER USE WASH SPLASHES from skin or eyes immediately with plenty of water

The following precautions appear in the 'STATUTORY CONDITIONS RELATING TO USE' box of the label / leaflet FOR USE ONLY AS INSECTICIDE FOR PROFESSIONAL USE WEAR SUITABLE PROTECTIVE CLOTHING / OVERALL AND SYNTHETIC RUBBER / PVC GLOVES AND EYE PROTECTIONS when using.

16. OTHER INFORMATION

MSDS first issued	18th February 2003
MSDS data revised	10th March 2009

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Disclaimer

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. The requirement or recommendation of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.



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