#### 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

### 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.

### 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

**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.

#### 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** |||

#### 15. REGULATORY INFORMATION

**CAS No** 52918-63-5

**Component name** Deltamethrin

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

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 / leaet 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

#### 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.