

# Consumer-Friendly Summary of Indian Standard IS 2567:1978

## Malathion Emulsifiable Concentrates – Specification

### Overview

This Indian Standard specifies the requirements for **Malathion Emulsifiable Concentrates**, a pesticide formulation commonly used in agriculture, public health, and veterinary applications to control pests. The standard ensures the quality, safety, and effectiveness of Malathion formulations.

### What is Malathion Emulsifiable Concentrate?

Malathion is a widely used pesticide that helps protect crops and public health by eliminating harmful insects. The **emulsifiable concentrate** (EC) form of Malathion is a liquid formulation that dissolves in water to create an effective spray.

### Key Quality Requirements

- **Appearance:** The product must be a clear, stable, and homogeneous liquid, free from visible impurities.
- **Cold Test:** The formulation should remain stable at low temperatures and should not form solids or separate into layers.
- **Flash Point:** The lowest temperature at which the liquid can catch fire should be above 24.5°C for safety reasons.
- **Emulsion Stability:** When mixed with water, the product should form a uniform sprayable emulsion without separation or floating particles.

### Chemical Composition

- **Malathion Content:** The active ingredient percentage should match the declared amount within permissible limits.
- **Acidity:** The formulation should not have excessive acidity (below 0.5%) to prevent damage to crops and equipment.

### Packaging and Labelling

- The product must be packed in **approved leak-proof containers** to ensure safety and stability.
- Labels must clearly indicate:
  - Name of the pesticide
  - Manufacturer details
  - Date of manufacture and batch number
  - Net quantity
  - Malathion concentration (%)
  - Safety and handling instructions, as per insecticide regulations

### Testing & Sampling

- Samples must be taken as per standard guidelines to check if the product meets the required specifications.
- Only **high-quality chemicals and purified water** should be used in the formulation.

### Safety Considerations

- Malathion should be handled with care and used only as per **recommended guidelines** to avoid risks to human health and the environment.
- It is crucial to follow **proper storage instructions** to maintain effectiveness.