



## IS 8498 : 2013 Temephos, emulsifiable concentrate (EC) - Specification

IS 8498:2013 specifies the quality and safety standards for **Temephos**, an **emulsifiable concentrate (EC) insecticide** widely used in **mosquito control** and **public health programs**. It also plays a role in managing insect pests in **agricultural settings**. The standard ensures that the product is manufactured with a consistent concentration, typically containing **50 percent (m/m) of Temephos**, to maximize effectiveness while mitigating any adverse environmental impact.

The specification outlines stringent criteria to guarantee the **quality** and **efficacy** of Temephos EC. The product must be a **homogenous and stable liquid**, with minimal sediment or suspended particles. Upon dilution with water, Temephos EC must readily form a stable **emulsion** suitable for spraying, ensuring ease of application in various pest control settings. The standard also details requirements for **emulsion stability, cold and flash points**, and other essential **chemical properties** to maintain the safety and reliability of the product.

IS 8498:2013 emphasizes that Temephos EC must be both **effective** in controlling **mosquito larvae** and other pests and **safe for use** when properly handled. It sets comprehensive guidelines for **packaging, labeling**, and storage to promote responsible use and ensure that the insecticide does not pose unnecessary risks to human health or the environment.

By adhering to IS 8498:2013, manufacturers and public health agencies can be confident that Temephos EC meets high standards for **safety, effectiveness**, and **environmental responsibility**, supporting widespread efforts in **pest management** programs.