



## MATERIAL SAFETY DATA SHEET

### LARVATE<sup>®</sup> 500EC

ASTRA INDUSTRIAL COMPLEX CO., LTD. (ASTRACHEM)  
P.O. Box 30447, AL-KHOBAR 31952  
KINGDOM OF SAUDI ARABIA

#### 1. PRODUCT IDENTIFICATION

**Product Name:** LARVATE 500EC

**Chemical Class:** Organophosphorus

**Use:** LARVATE 500 EC Used as an insecticide for the control of Larvae of mosquito (*Anopheles spp.*, *Aedes spp.*, *Culex spp.*), midges, sand flies, and flies and *Simulium spp.* in ponds, lakes, marches and swamps. It is also used for the control of fleas on dogs and cats

**Producer:** Astra Industrial Complex Co., Ltd.  
P.O. Box 30447, Al-Khobar 31952  
Kingdom of Saudi Arabia  
Emergency Tel.# (+966) 3 8121 406

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	Proportions (% w/w)	Chemical structure
<b>Temephos</b> CAS No.3383-96-8 <b>Chemical Name:</b> O,O,O',O'-tetramethyl O,O'-thiodi-p-phenylene bis(phosphorothioate); O,O,O',O'-tetramethyl O,O'-thiodi-p-phenylene diphosphorothioate (IUPAC)	51.12 (500 gm / L)	
Solvents	41.70	
Emulsifiers	7.18	



### 3. HAZARD IDENTIFICATION

#### Acute Effects

- Ingestion** The concentrate is slightly toxic by ingestion. Acute oral toxicity is very low, LD<sub>50</sub> 10,000 mg/Kg (rat, female).
- Eye** The concentrate may cause irritation.
- Skin:** Prolonged and repeated skin contact may cause irritation. The product may be absorbed through the skin.
- Inhalation:** Inhalation may cause respiratory irritation and chemical pneumonitis.

#### Chronic Effects:

Unknown

### 4. FIRST AID MEASURES

- Swallowed:** If swallowed, vomiting should be induced if the person is conscious. In the event of collapse artificial respiration should be given. Consult a physician immediately.
- Eye** If in eyes, hold eyes open, flood with water for at least 20 minutes. Consult a physician.
- Skin** If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water
- Inhaled** Remove affected person to fresh air until recovered. Provide oxygen if needed and consult a physician.

### 5. FIRE FIGHTING MEASURES

Flash Point 44°C

#### Fire Fighting Measures:

Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces. Keep upwind.

#### Extinguishing Media:

Carbon dioxide (CO<sub>2</sub>), foam or dry chemical powder. Use water spray to cool exposed containers.



## 6. ACCIDENTAL RELEASE MEASURES

### Spill or Leak:

Contain spill and absorb with sand or other inert absorbent and collect absorbent in a plastic lined metal drum for disposal. Prevent from entering drains, waterways and sewers. Liquid chlorine bleach may be used to decontaminate the spill area.

## 7. HANDLING AND STORAGE

Not classified as a dangerous good for transport and storage. Store in the closed, original labeled container in a cool, dry well ventilated area out of direct sunlight. Keep in a safe place away from foodstuffs, seeds or fertilizers. Keep out of the reach of children.

Wash thoroughly after handling the material and before eating or drinking.

## 8. EXPOSURE CONTROLS / PERSONNEL PROTECTION

### Exposure Standards:

No exposure standards have been set for this product.

### Engineering Controls:

When used in the field no special engineering controls required.

### Personnel Protection:

The concentrate will irritate the eyes and may irritate the skin. Avoid contact with eyes and skin. When preparing product for use wear elbow length PVC gloves and face shield or goggles. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles and contaminated clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear yellow viscous liquid free of visible impurities
Odour	Faint amine odour
Density	1.1700 ± 0.006 Kg/L at 25°C
Solubility in water	It forms emulsion



## 10. STABILITY AND REACTIVITY

### Reactivity:

Avoid contact of the concentrate with strong alkalis and strong oxidizing agents.

Avoid storage above 60°C.

### Hazardous Decomposition Product:

- Carbon monoxide, carbon dioxide,
- Oxides of phosphorus
- Oxides of sulfur.

## 11. DISPOSAL CONSIDERATION

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable local procedures.

Emptied container retains vapour and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Do not reuse container. Triple rinse container, then puncture and dispose off in a sanitary landfill or by incineration, or if allowed by local authorities, by burning. If burned, stay out of smoke.

## 12. TRANSPORT INFORMATION

Product not classified as a dangerous good for transport by road, rail, sea or air. It is a good practice to separate this product from food and animal feedstuffs, seeds or fertilizers during transport.

## 13. OTHER INFORMATION

Buyer assumes all responsibility for safety and use not in accordance with the product label instructions.