

# MATERIAL SAFETY DATA SHEET



## FENDURE 500EC

ASTRA INDUSTRIAL COMPLEX CO., LTD. "ASTRACHEM"  
P.O. Box 30447, AL-KHOBAR 31952  
KINGDOM OF SAUDI ARABIA  
Tel # (+966) 3 8121 406  
Revision Date :06/03/2018

### 1. PRODUCT IDENTIFICATION

**Product Name:** FENDURE 500 EC  
**Active ingredient:** FENITROTHION  
**Chemical Class:** Organophosphate  
**Use:** Public Health Insecticide  
**Producer:** Astra Industrial Complex Co., Ltd.  
P.O. Box 30447, Al-Khobar 31952  
Kingdom of Saudi Arabia  
Emergency Tel # (+966) 3 8121 406

### 2. HAZARD IDENTIFICATION

**Hazard Statement:**

**H226** Flammable liquid and vapour  
**H302 + H312** Harmful if swallowed or in contact with skin  
**H304** May be fatal if swallowed and enters airways  
**H330** Fatal if inhaled  
**H315** Causes skin irritation  
**H319** Causes serious eye irritation  
**H351** Suspected of causing cancer  
**H335** May cause respiratory irritation  
**H400** Very toxic to aquatic life  
**H410** Very toxic to aquatic life with long lasting effects

**Precautionary Statement:**

**P210** Keep away from heat/sparks/open flames/hot surfaces- No smoking.  
**P243** Take precautionary measures against static discharge.  
**P260** Do not breathe mist/vapours.  
**P270** Do not eat, drink, or smoke when using this product.  
**P280** Wear protective gloves/protective clothing/eye protection/face protection.  
**P312** Call a POISON CENTER or doctor/physician if you fell unwell.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance	Contents (g / L )	Chemical structure
Fenitrothion CAS No. 122-14-5	500 g/L	

### 4. FIRST AID MEASURES

**Skin contact**

Remove all contaminated clothings and immediately wash with lot of water and soap

**Eye contamination**

Wash the eyes with plenty of cool and clean water

**Inhalation**

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Carry the person to the open fresh air; loosen the clothings around neck and chest

### Ingestion

If the victim is fully conscious, induce vomiting by tickling back of the throat. Do not administer milk, alcohol and fatty substances. In case the person is unconscious make sure the breathing passages is kept clear without any obstruction. Victim's head should be turned to one side in the lying down position. In case of breathing difficulty, give mouth to mouth or mouth to nose breathing

### Symptoms

**Mild** – anorexia, headache, dizziness, weakness, anxiety, tremors of tongue and eyelids, miosis, impairment of visual acuity.

**Moderate** – Nausea, salivation, lacrimation, abdominal cramp, vomiting, sweating, slow pulse, muscular tremors, miosis

**Severe** – Diarrhoea, pinpoint and non-reactive pupils, respiratory difficulty, pulmonary edema, cyanosis, loss of sphincter control, convulsions, coma and heart block.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>), dry chemical.

**Specific Hazard During Fire:** No data available.

**Special Protective Equipment:** Fire fighters should wear full-faced self-contained breathing apparatus and protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear protective gloves/protective clothing/eye protection/face protection.

**Environmental Precautions:** Avoid release to the environment.

**Method for Cleaning Up:** Evacuate non-essential personnel. Eliminate ignition source. Ventilate area. Absorb spills with inert material such as clay, sand, earth, sawdust etc. and collect in a drum. Cover up the contaminated area with household detergent and a small amount of water. Brush the slurry and spread inert absorbents on the slurry liquid and collect the absorbed material in a drum. Seal drum and dispose of. Do not contaminate water resources.

## 7. HANDLING AND STORAGE

### Handling:

Do not use or store near flame, sparks or hot surfaces. Use only in well-ventilated area. Keep container closed. Do not mix with water (except for normal preparation). Keep out of reach of children, unauthorized persons and animals. After handling and before eating, drinking or smoking, wash hands, arms and face with soap and water

### Storage:

Keep out of reach of children.



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Unauthorized persons and animals; Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight. Keep away from heat. Do not store near food, feedstuffs, fertilizer or seed. Store at ambient temperatures  
Ensure containers are correctly labeled and securely sealed; Classified as a dangerous substance for transport purposes.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Engineering controls:

Natural ventilation only required when handling the concentrate. A local exhaust should be used in confined areas to keep the level of solvent within acceptable limits. Don't inhale mist.

#### Personal protection:

Eye protection: Safety glasses or goggles  
Clothing: Long sleeved shirt and long pants, shoes plus socks and washable hat  
Gloves: Chemical resistant gloves  
Respirator: All pesticide handlers must wear a respiratory protection device when working.

#### User Safety Recommendations:

Product is poisonous if absorbed by skin contact, inhaled or swallowed. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes and skin. Don't inhale spray mist.

Wash hands before eating, drinking, and chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear light brown to brown liquid
Water Content:	Maximum: 2 g/kg
Persistent foam:	Maximum: 50 ml after 1 min
pH	3.0 – 6.0
Density	0.968 - 1.168 g/ml

### 10. STABILITY AND REACTIVITY

**Chemical stability:** This material is stable under normal handling and storage conditions. Rapidly hydrolysed in alkaline media. Stable in water up to 100 °C at pH 7.

**Conditions to avoid:** Extremes of temperature and direct sunlight.

**Incompatibility:** Strong oxidizing agent bases.

### 11. TOXICOLOGICAL INFORMATION

#### Technical Material:

Acute Oral	Male Rat LD50: 1700 mg/kg Female Rat LD50: 1720 mg/kg
Acute Dermal	Male Rat LD50: 810 mg/kg Female Rat LD50: 840 mg/kg



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Inhalation Rat (4 h) LC50 : >2210 mg/m<sup>3</sup>

Skin Irritation Rat: Non-irritating

Eye Irritation Rat: Non-irritating

### Formulation :

Acute oral	LD50 500 mg/kg
Acute dermal	LD50 > 2000 mg/kg
Acute Inhalation	LC50 >4.11 mg/L of air
Acute dermal irritation	Non Irritating
Acute eye irritation	Non Irritant
Skin Sensitization	Weak sensitizer

### 12. ECOLOGICAL INFORMATION

Birds	Acute oral LD50 for quail 23.6, mallard ducks 1190 mg/kg.
Fish	LC50 (48 h) for carp 4.1 mg/l. LC50 (96 h) for bluegill sunfish 2.5, rainbow trout 1.3 mg/l
Daphnia	EC50 (48 h) 0.0086 mg/l
Algae	EC50 (96 h) for Selenastrum capricornutum 1.3 mg/l
Bees	Toxic to bees
Other	beneficial spp. Highly toxic to non-target arthropods

### 13. DISPOSAL CONSIDERATION

#### Waste:

Pesticide wastes are toxic and hazardous. Dispose of in accordance with applicable and local laws and regulations. Do not discharge or pour into soil, drainage system or bodies of water.

#### Container:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning (plastic containers). If burned, stay out of smoke.

### 14. TRANSPORT INFORMATION

Proper Shipping Name:	Organophosphorus pesticides, liquid, toxic, n.o.s (Fenitrothion)
UN. No:	UN 3018
Hazard Class:	6.1
Packing group:	III
Subsidiary Risks:	3

### 15. REGULATORY INFORMATION.

#### Risk Symbols

Xn	Harmful
N	Dangerous for the environment

#### Risk Phrases

R22	Harmful if swallowed
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- R50** Very toxic to aquatic organisms  
**R53** May cause long-term adverse effects in the aquatic environment

### 16. OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace based on publicly available and internally available information. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

