

**IVORYCHEM PTE LIMITED**

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Email: [contact@ivorychem.com](mailto:contact@ivorychem.com)  
Web: [www.ivorychem.com](http://www.ivorychem.com)  
Co. Registration No. 200405572W  
GST Registration No. 200405572W

**MATERIAL SAFETY DATA SHEET****ECTOKEEN 300 EC INSECTICIDE**

**Version:** Global  
**Date Approved:**  
**Revision No:** 1

**CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** ECTOKEEN 300 EC INSECTICIDE

**ACTIVE INGREDIENT:** Chlorfenvinphos

**FORMULA:** C<sub>12</sub>H<sub>14</sub>Cl<sub>3</sub>O<sub>4</sub>P

**MANUFACTURER**

IVORYCHEM PTE LTD  
15 Beach Road, #02-09  
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Singapore 189677  
Tel : +65 63377765  
Fax : +65 63377730

**Emergency Telephone Numbers:**

**Emergency Phone** [contact@ivorychem.com](mailto:contact@ivorychem.com) (Please refer local label for Emergency Numbers in your region).

**COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS #	Wt.%	PEL/TLV	EC No.	EC Class
Chlorfenvinphos	470-90-6	30	None	None	None
Other ingredients	-	70	None	None	None

**HAZARDS IDENTIFICATION****Health Hazards:**

The major effect is on the nervous system. Dangerous if swallowed, inhaled, gets in eyes, or absorbed through the skin. Excessive sweating, headache, faintness, nausea, pinpoint pupils, blurred vision, muscle twitching. Immediately wash any contamination by the concentrate from the eyes and skin. Ability to cause cancer.

**Environment Hazards:**

May leach into soil and underground water. It may also be found in surface waters from rain. Prevent the contamination of the floor and beds of water. It is very toxic to aquatic organisms and may cause long-term effects in the aquatic environment. Great care, however, should be given to avoid any additional release, e.g. through inappropriate disposal. AVOID Excessive heat and fire.

**FIRST AID MEASURES**

Company Registration No: 200405572W  
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### **Eye:**

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

### **Skin & Clothing:**

Remove contaminated clothes. Rinse and then wash skin with water and soap. Refer for medical attention.

### **Ingestion:**

Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

### **Inhalation:**

Move the person to fresh air. Remove the casualty from further contamination. Fresh air, rest. Artificial respiration may be needed.

### **Advice to Doctor:**

Treat as cholinesterase inhibitor. Atropine sulphate is antidotal.

## **FIRE FIGHTING MEASURES**

**Flash Point:** 100 °C

**Auto ignition temperature:** Non- Applicable

### **Extinguishing Media:**

Use dry chemical or carbon dioxide.

Low - It will burn and may give off choking fumes if involved in a fire. Use water, foam, CO<sub>2</sub>, or dry powder to extinguish.

### **Protective Equipment:**

Workplace controls are better than personal protective equipment. However, for some jobs (such as outside work, confined space entry, jobs done only once in a while, or jobs done while workplace controls are being installed), personal protective equipment may be appropriate.

### **Acute Hazards (Fire):**

Combustible. Liquid formulations containing organic solvents may be flammable. Give off irritating or toxic fumes (or gases) in a fire.

## **ACCIDENTAL RELEASE MEASURES**

Depending on the degree of exposure periodic medical examination is indicated. The symptoms of acute intoxication do not become manifest until 30 minutes to 6-12 hours. Specific treatment is necessary in case of poisoning with this substance; the appropriate means with instructions must be available. If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s). Carrier solvents used in commercial formulations may change physical and toxicological properties. Do NOT take working clothes home.

### **Personal cautions:**

Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants.

### **Methods of Cleaning Up:**

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The empty container may be decontaminated by rinsing two or three times with water and detergent and scrubbing the sides.

### **HANDLING AND STORAGE**

Store in original container, tightly closed, away from foodstuffs and out of reach of children. Separated from food and feedstuffs.

### **PERSONAL PROTECTION**

#### **Personal Protective & Equipment**

Safety glasses or goggles, rubber gloves, shoes plus socks, long-sleeved shirt, and long pants. Workplace controls are better than personal protective equipment. However, for some jobs (such as outside work, confined space entry, jobs done only once in a while, or jobs done while workplace controls are being installed), personal protective equipment may be appropriate.

### **PHYSICAL AND CHEMICAL PROPERTIES**

**Form:** Liquid

**Physical State:** Emulsifiable Concentrate

**Color:** Yellow/Brown

**Odor:** Weak inherent smell

**Boiling Point:** 0.07kPa: 167-170°C

**Melting Point:** -19 to -23°C

**Vapor Pressure:** , = <0.001 0.53m Pa:20°C

**Evaporation Rate:** Not Determined

**Density:** 1.36

**Solubility:** Slightly soluble in water, soluble in many organic solvents

**Octanol/water partition coefficient as log Pow:** 3.82

### **STABILITY AND REACTIVITY**

**Stability:** Stable.

**Conditions/Materials to Avoid (Incompatibility):** Excessive heat and fire.

**Hazardous Polymerization:** Will not occur.

### **TOXICOLOGICAL INFORMATION**

#### **Toxicology Data:**

##### **Technical**

Acute Oral LD50 (rat): 20 mg/Kg

Acute Oral LD50 (mouse): 117 mg/Kg

### **ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Assessment: It is very toxic to aquatic organisms and may cause long-term effects in the aquatic environment. Great care, however, should be given to avoid any additional release, e.g. through



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inappropriate disposal. AVOID Excessive heat and fire.

### **DISPOSAL CONSIDERATIONS**

#### **Spillage Disposal:**

Collect leaking liquid in sealable containers. Do NOT wash away into sewer. Carefully collect remainder, then remove to safe place. Do NOT let this chemical enter the environment. Chemical protection suit including self-contained breathing apparatus.

#### **Container Disposal:**

Dispose of empty containers safely. Avoid contamination of any water supply with chemical or empty container.

### **TRANSPORT INFORMATION**

Do not transport with food and feedstuffs. Marine pollutant.

#### **EU Classification**

**Symbol:** T+, N

**R:** 24-28-50/53

**S:** (1/2-)-28-36/37-45-60-61

**Dangerous Goods Class:** 6.1

**UN Classification**

**UN Hazard Class:** 6.1

**UN Pack Group:** I

**UN NO.:** 3018

### **REGULATORY INFORMATION**

Not Applicable

### **OTHER INFORMATION**

Section(s) Revised: New Format