



**IVORYCHEM PTE LIMITED**  
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Co. Registration No. 200405572W  
GST Registration No. 200405572W

## MATERIAL SAFETY DATA SHEET

### PRIMERO INSECTICIDE

**Version:** Global  
**Date Approved:** 08/13/1998  
**Revision No:** 1 çé

#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** PRIMERO® INSECTICIDE  
**ACTIVE INGREDIENT:** Flumethrin  
**CHEMICAL CLASS:** Pyrethroids  
**CHEMICAL NAME:** Cyano(4-fluoro-3-phenoxyphenyl)methyl 3-[2-chloro-2-(4-chlorophenyl)ethenyl]-2,2-dimethylcyclopropanecarboxylate  
**MOLECULAR FORMULA:**  
**SYNONYMS:**

#### MANUFACTURER

IVORYCHEM PTE LTD  
15 Beach Road, #02-09  
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Tel: +65 63377765  
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#### 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
Flumethrin	69770-45-2	1.1	None	None	None
Other ingredients	-	98.9	None	None	None

#### HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Poison Poisonous; Could be fatal if inhaled, swallowed or absorbed through skin. Contact could cause burns to skin and eyes. Runoff from fire-control or dilution water could cause pollution.

##### FIRST AID MEASURES

**SKIN:** Immediately remove contaminated clothing, including shoes. Wash affected area with plenty of water for at least 20 minutes. **SPEED IN REMOVING LIQUID FROM SKIN IS OF**



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### PRIME IMPORTANCE

**EYES:** Flush eye immediately with large amounts of water for 15 minutes, occasionally lifting eyelids, until no evidence of chemical remains. Seek medical attention if eye irritation persists.

**INGESTION:** Precautions: Avoid contact with the product. Avoid breathing in of product or mist. Do not eat, drink or smoke during application. Wash hands thoroughly after use. Symptoms of poisoning: Hyperexcitability, tremors or convulsions, with muscle weakness. First Aid: Remove person from source of contamination and remove all contaminated clothing (taking care not to contaminate the first aider). Wash thoroughly with copious amounts of soap and water.

Treatment: There is no specific treatment, thus treatment is symptomatic and supportive.

**INHALATION:** IMMEDIATELY remove to fresh air. If not breathing give artificial respiration. If breathing of victim is difficult administer oxygen for a maximum period of one hour. Have victim lie down and keep warm.

### FIRE FIGHTING MEASURES

**SMALL FIRES:** Dry chemical, CO<sub>2</sub>, Halon, water spray or standard foam.

**LARGE FIRES:** Water spray, fog or standard foam is recommended. Move container from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material. Cool containers that are exposed to flames with water from the side until well after the fire is out. Stay away from ends of tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Positive-pressure self-contained breathing apparatus (SCBA) and chemical protective clothing that is specifically recommended by the shipper or manufacturer may be worn. It will provide little or no thermal protection. Structural firefighter's protective clothing is NOT effective with these materials.

**IF TANK, RAIL CAR OR TANK TRUCK IS INVOLVED IN FIRE, ISOLATE FOR 1 KILOMETRE IN ALL DIRECTIONS.**

### ACCIDENTAL RELEASE MEASURES

**PRECAUTIONS:** Restrict access to area. Provide adequate protective equipment and ventilation. Remove sources of heat and flame. Notify occupational and environmental authorities. **SPILL OR LEAK:** Shut off ignition sources; no flares, smoking or flames in hazard area. Do not touch spilled material. Stop leak if you can do it without risk. Water spray may reduce vapor; but it may not prevent ignition in closed spaces. Remove spilled material by absorbing onto absorbent material (eg. swadust). Pack into sealable container. **SMALL SPILLS:** Takeup with sand or other noncombustible absorbent material and place into containers for later disposal. **LARGE SPILLS:** Dike far ahead of liquid spill for later disposal.

### HANDLING AND STORAGE

Separation of at least 3M from the following classes is recommended. Corrosives Fire separation of at least 5M or 4Hr fire resistant wall from the following classes is recommended. Flammable Gases Flammable Liquids Flammable Solids Spontaneously Combustibles Dangerous When Wet Oxidizing Agents Storage in the same room or space is prohibited with the following classes: The rooms or spaces should be at least 10M apart. Explosives Organic Peroxides Store away from food, feed children and uninformed persons



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### EXPOSURE CONTROLS / PERSONAL PROTECTION

**Controls:** The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Use a non-sparking, grounded ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside. Supply sufficient replacement air to make up for air removed. Have a safety shower/eye wash fountain readily available in the immediate work area

**Personal Protection:** If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles & face shield, boots, imperious gloves, coveralls, & respiratory protection. Have appropriate equipment available for use in emergencies.

### PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Oily straw-coloured liquid with weak odour

**Chemical Name:** cyano(4-fluoro-3-phenoxyphenyl)methyl 3-[2-chloro-2-(4-chlorophenyl)ethenyl]-2,2-dimethylcyclopropanecarboxylate

**CAS Number:** 69770-45-2

**Molecular Weight:** 434.3

**Vapour Pressure:** Not available

**Viscosity:** Not relevant

**Solubility in water:** Insoluble

**pH:** Not relevant

**Flash point:** >100°C

**Explosive Limits:** Not Available

### STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** NA

**STABILITY:** This material is stable under normal handling and storage conditions described in Section 7.

**INCOMPATIBLE MATERIALS:** Not applicable

**HAZARDOUS DECOMPOSITION:** Not applicable

**HAZARDOUS REACTIONS:** Not applicable

### TOXICOLOGICAL INFORMATION

LD50 oral rat (male) 258 mg/kg

LD50 oral rat (female) 192 mg/kg

LD50 dermal rat > 150 mg/kg

Rabbit skin irritation: non-irritant

Rabbit mucose membrane irritation : Non irritant

### ECOLOGICAL INFORMATION

Active ingredient Daphnia toxicity Daphnia magna Strauss: 0.2 mg/l.

### DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or

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Incorporated in the Republic of Singapore Under the Companies Act (Cap 50)

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otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material. Disposal of unwanted spraywash should be into a pit of adequate size on level ground and away from watercourses, drains, dams, and tree roots. Triple or (preferably) pressure rinse empty containers, adding rinsate to spray wash. Do not dispose of undiluted chemicals on site. If not available bury containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

**EMPTY CONTAINER:** Non-returnable containers which held this material should be cleaned, prior to disposal, by triple-rinsing. Containers which held this material may be cleaned by being triple-rinsed, and recycled.

**TRANSPORT INFORMATION**

**UN No:** 2903  
**Hazchem Code:** 2we  
**EAC:** 28  
**ADR/RID Class:** 6.1  
**ADR/RID Hazard ID No:** 87B  
**IMDG-Shipping Name:** Pesticide liquid toxic N.O.S  
**IMDG Code:** 6146.1  
**IMDG-Packaging Group:** I/II/III  
**Marine Polutant:** yes  
**Class:** Class: 6.1 Poison Group: I/II/III  
**Subsidiary Risks:** Flammable liquid 6.1 2902 II  
**Tremcard Number:** 30G61

**REGULATORY INFORMATION**

**EEC Hazard Classification:** 6.1  
**Risk Phases:** Harmful by inhalation, in contact with skin and if swallowed  
**Safety Phases:** Keep out of reach of children Keep away from food, drink and animal feeding stuffs

**OTHER INFORMATION**

Section(s) Revised : New Format