


# MATERIAL SAFETY DATA SHEET

## CYPERKILL 25EC

<b>I. IDENTIFICATION OF THE MATERIAL</b>			
Product name: Cyperkill 25EC Active ingredient: Cypermethrin 25%w/v (250g/L) UN Number : UN3351 Registration No: Not applicable	Product code: Not applicable		
Registrant: VIETNAM FUMIGATION COMPANY 29 Ton Duc Thang St., Dist.1, HCMC, Vietnam			
Manufacturer: VIETNAM FUMIGATION COMPANY Lot B107, Thai Hoa Industry Park, Duc Hoa Commune, Long An Province, Viet Nam			Emergency Contact: Tel: 028.3822.8097
Relevant identified uses: Prevent fly, mosquito			
<b>II. COMPOSITION/INFORMATION ON INGREDIENTS</b>			
Ingredients	CAS number	Chemical formula	Content (%w/v)
Cypermethrin	52315-07-08	$C_{22}H_{19}Cl_2NO_3$	25
Others			75
<b>III. HAZARDS IDENTIFICATION</b>			
<b>1. Classified as Hazardous:</b> Category 4 (GHS), category 2 (WHO)			
<b>2. Label Element:</b>			
			
<b>GHS Signal Word:</b> Warning			
<b>GHS Hazard Phrases:</b>			
<i><b>Physical hazards</b></i>			
H226: Flammable liquid and vapour			
<i><b>Health hazards</b></i>			
H302: Harmful if swallowed			
H313: May be harmful in contact with skin			
H318: Causes serious eye damage			

### ***Environmental hazards***

H410: Very toxic to aquatic life with long-lasting effects

### **Precautionary Statementss**

P102: Keep out of reach of children

P103: Read label before use

P233: Keep container tightly closed

P270: Do not eat, drink or smoke when using this product

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

P501: Dispose of contents/container to ... [...] in accordance with local/regional/national/international regulation (to be specified))

## **IV. FIRST AID MEASURES**

**General information:** remove affected person from source of contamination. CAUTION! First aid personnel must be aware of own risk during rescue! Place unconscious person on the side in the recovery position and ensure breathing can take place

**Inhalation:** move the exposed person to fresh air at once. Get medical attention. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. If breathing stops, provide artificial respiration.

**Ingestion:** do not induce vomiting! Rinse mouth thoroughly. Get medical attention immediately! If breathing stops, provide artificial respiration.

**Skin contact:** remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing

**Eye contact:** immediately flush with plenty of water for up to 15 minutes. Removes any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse

## **V. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire.

**HAZARDOUS COMBUSTION PRODUCTS:** Vapours/gases/fumes of: Hydrogen chloride (HCl). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>)

**FIRE FIGHTING PROCEDURES:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

## **VI. ACCIDENTAL RELEASE MEASURES**

**RELEASE NOTES:** Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area. Keep material out of lakes, streams, ponds and sewer drains. Dike to spill and absorb with a noncombustible absorbent to confine such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal. Vacuum, shovel or pump all waste material, including absorbent, into a drum and label contents for disposal. To clean and neutralize contaminated area, scrub area with a solution of high pH detergent and water. Let solution sit for 5 minutes. Use a stiff brush to scrub affected area. Repeat if necessary to remove visible staining. Additional decontamination can be made by applying bleach to affected area. Absorb wash-liquid as noted above, remove visibly contaminated soil and place into recovery / disposal container and dispose of in accordance with the method outlined in Section 13 "Disposal Considerations" below

## **VII. HANDLING AND STORAGE**

**GENERAL PROCEDURES:** Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

## **VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Use local exhaust at all process locations where vapors or mist may be emitted. Ventilate all transport vehicles prior to unloading.

### **PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** For splash, spray or mist exposure, wear chemical protective goggles or a face shield.

**RESPIRATORY:** For splash, mist or spray exposure wear, as a minimum, a properly fitted air-purifying respirator with an organic vapor cartridge (OV) or canister with any R, P or HE prefilter

Respirator use and selection must be based on airborne concentrations.

**PROTECTIVE CLOTHING:** Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items such as shoes, belts and watchbands that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

**GLOVES:** Wear chemical protective gloves made of materials such as rubber or neoprene. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

**WORK HYGIENIC PRACTICES:** Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking or using tobacco. Shower at the end of the workday.

**COMMENTS:** Personal protective recommendations for mixing or applying this product are prescribed on the product label. Information stated above provides useful, additional guidance for individuals whose use or handling of this product is not guided by the product label

## IX. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Yellow liquid
- Odor: Aromatic hydrocarbon
- Flash point: 49°C ISO 3679
- pH Value: 4.0 to 6.0
- Density: 0.98 – 1.00 g/ml
- SOLUBILITY IN WATER: Emulsible in water

## X. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid exposure to high temperature or direct sunlight. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate

STABILITY: Stable under normal temperature conditions and recommended use.

POLYMERIZATION: Will not occur

INCOMPATIBLE MATERIALS: Strong oxidizing substances. Strong acids. Strong alkalis.

## XI. TOXICOLOGICAL INFORMATION

LD50 Acute Oral : Rat = 321.64 mg/kg b.w.; Mice = 269.92 mg/kg b.w.

LD50 Acute Dermal : Rat = >2000 mg/kg b.w.; Rabbit = 2500 mg/kg b.w.

LD50 Acute Inhalation: Rat = 3.5 mg/lit. Air

Skin Irritation : Rabbit = Slight irritation

Eye Irritation : Rabbit = Slight irritation

Skin Sensitization : Weak skin sensitizer.

### CHRONIC TOXICITY

2 Years study in Rat NOEL: 7.5mg/kg

2 Years study in dog NOEL: 5mg/kg

## XII. ECOLOGICAL INFORMATION

Bees: Toxic to bees

Birds: Bobwhite Quail LC50 = >20,000 ppm

Mallard Duck: LD50 Oral = >4640 mg/kg

The Aquatic Organisms (Pitch, Daphnia, Algae):

Magna LD50 = >0.0002 mg/lit

Blue-Green Algae (Nostoc linckia) LC50 (20H)=20,000 ug/lit.

Fishes

Bluegill Sunfish LD50 (96H) = 0.0018 mg/lit

Rainbow Trout LD50 (96H) = 0.0082 mg/lit

### **XIII. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

**EMPTY CONTAINER:** Non-returnable containers that 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, with the rinsate being incinerated. Do not cut or weld metal containers. Vapors that form may create an explosion hazard.

### **XIV. TRANSPORT INFORMATION**

UN NUMBER: 3351

ADR/IRD:

Packaging group: Bottle of 100mL, 250mL, 500mL, 1L

Class: 6.1

Shipping name: Pyrethoid toxic (contains Cypermethrin)

### **XV. TECHNICAL REGULATIONS AND LEGAL REGULATIONS MUST COMPLETE**

**1. Status of declaration and registration in regional countries around the world** (list of national categories that have been declared and declared)

**2. Dangerous classification according to the country of declaration and registration**

### **XVI. OTHER INFORMATION**

Issue Date: 20/03/2018

Revision Date: 10/08/2020

Name of organization, individual drafting: VIETNAM FUMIGATION COMPANY

Note for reader:

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. 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.