

Issue Date: 1 August 2011

Issued by: NUFARM MALAYSIA SDN BHD

Cypermethrin 5.5% EC Product Name:

# 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY:

Cypermethrin 5.5% EC **Product Name** 

**Company Name** NUFARM MALAYSIA SDN BHD (207731-P) **Company Address** L2.03 Wisma BU8, No. 11, Lebuh Bandar Utama,

Bandar Utama, 47800, Petaling Java.

Selangor D.E., Malaysia

Tel/Fax Number Tel: (+60 3) 7629 7233 Fax: (+60 3) 7629 7229

**Email** sales.my@my.nufarm.com

**Emergency Contact** National Poison Centre 1800 88 8099 (Normal Hour) (+60 12) 430 9499 (After Hour)

**Product Type** Insecticide

**Product Use** Non-systemic insecticide with contact and stomach action. Also exhibits anti-feeding action.

Control of a wide range of insects pests in mango, chili, tomato, brinjal, choy sam, cabbage,

beans, corns and cucumber.

Other Information This MSDS describes, to the best of our knowledge, the properties of the concentrated

> product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the

diluted product are likely to be much less severe.

## 2. HAZARDS IDENTIFICATION:

**Emergency Overview:** 

Appearance and Odour Pale yellow to light brown liquid with mild odour

**Warning Statements** Keep out of reach of children. CAUTION. May irritate the eye. Mild irritant to skin. Avoid

breathing vapour or spray mist. Avoid contact with eyes, skin and clothing.

**Potential Health Effects:** 

Harmful if swallowed. Ingestion in large amount can result in headache, nausea, lethargy, Ingestion

motor weakness and in-coordination.

**Eye Contact** Irritant to eves.

**Skin Contact** Mild irritant in contact with skin.

Inhalation Breathing vapour can result in headaches, dizziness and nausea. Breathing in high

concentration of vapours can produce central nervous system depression, which can lead to loss of coordination, impaired judgement and if exposure is prolonged, unconsciousness.

**Potential Environment** 

Effects:

This product is toxic to fish and aquatic organisms.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

Type of Formulation

Emulsifiable Concentrate, (EC) Ingredients Name

CAS Proportion Cypermethrin 52315-07-8 5.5%. w/w Inert Ingredients 94.5%, w/w

## 4. FIRST AID MEASURES:

Ingestion

Contact the doctor or National Poison Centre immediately. Do NOT induce vomiting unless told to do so by doctor or National Poison Centre. DO not give anything by mouth to an unconscious person.

These instructions are suitable for ingestion of spray solution and small amounts of concentrate; however, if SUBSTANTIAL AMOUNTS of the concentrate have been swallowed (more than about 20ml or one tablespoon) AND if medical assistance is more than 30 minutes away, the induction of vomiting should be CONSIDERED, preferably based on MEDICAL ADVICE if a physician can be contacted by phone. All care must be taken to prevent vomit from being inhaled. Do not give anything by mouth to a semi-conscious or



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	unconscious person.
Eye	Hold eyelids open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call National Poison Centre or doctor for treatment advice.
Skin	Remove contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Wash affected area with soap and water. Call National Poison Centre or doctor for treatment advice.
Inhalation	Remove affected person to fresh air until recovered. If the person is not breathing, call 999 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call National Poison Centre or doctor for further treatment advice.
Advice to Doctor	Treat symptomatically.
	If vomiting occurs, solvent present may cause pulmonary oedema.
	In cases of skin contact, application of Vitamin E cream has been found to have very high therapeutic value.

## 5. FIRE FIGHTING MEASURES:

Extinguishing Media Special Fire Fighting Procedures Water fog, foam, halon, carbon dioxide or dry chemical. Do not use high volume water jet. Fire-fighters should wear NIOSH/MHSA approved self-contained breathing apparatus and full fire-fighting turn out gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

Hazardous If involve

If involved in a fire, it will emit carbon monoxide and possibly hydrogen chloride.

**Decomposition Products** 

#### **6. ACCIDENTAL RELEASE MEASURES:**

**Spills and Disposal** 

Contain spill using absorbent or impervious materials such as earth, sand or clay or proprietary absorbent (such as vermiculite). If large liquid spills occur, attempt to recover as much spilt material from sumps and bunded areas before absorbing remaining material into vermiculite or other absorbent. Collect and contain contaminated absorbent and dike material for disposal. Dispose of at a landfill in accordance with local regulations. Final clean up with degreasing agent or detergent is advised.

**Environmental Precaution** 

Prevent material from entering public sewer systems or any waterways. Do not flush to drains.

### 7. HANDLING AND STORAGE:

Handling

Avoid breathing vapour or spray mist. Users should wash hands before eating, chewing gum, using tobacco, or using the toilet. Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage

Store in the closed, original container in a dry, well ventilated area out of direct sunlight. Store in a safe place away from foodstuffs, seeds or fertilizers. Store out of the reach of

children. Do not contaminate water, food, or feed by storage or disposal.

**Other Information** Always read the label and any attached leaflet before use.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

**Engineering Controls** 

Handle in well ventilated area, generally natural ventilation is adequate.

**Personal Protective** 

**Equipment** 

Eye/ Face Protection To avoid contact with eyes, wear chemical goggles or shielded safety glasses. An

emergency eyewash or water supply should be readily accessible to the work area.



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**Skin Protection** To avoid contact with skin, wear cotton overalls buttoned to the neck and wrist and

washable hat, and elbow length PVC gloves. An emergency shower or water supply should

be readily accessible to the work area.

**Respiratory Protection** Not normally required. If vapours or mists exceed acceptable levels, wear NIOSH approved

air-purifying respirator with cartridges/canisters approved for use against pesticides.

**General Hygiene** Considerations

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials: 1) do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored; 2) wash hands and face carefully before eating, drinking, using

tobacco, applying cosmetics or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**Physical State** Liquid

**Appearance** Pale yellow to light brown liquid

**Boiling Point/Range** > 150°C

Decomposition Stable to boiling point of mixture

**Temperature** 

0.92 g/cm<sup>3</sup> (approx.) **Relative Density** 

Solubility in Water Form an emulsion in the water

**Vapour Pressure** Not determined Viscosity Not determined

#### 10. STABILITY AND REACTIVITY:

Storage Stability This material is stable under normal handling and storage conditions.

**Material to Avoid** Keep away from strong oxidizing agents **Hazardous** Hazardous polymerization will not occur.

**Polymerization** 

#### 11. TOXICOLOGICAL INFORMATION:

**Toxicology Information** No harmful effects are expected if the precautions on the label and this MSDS are followed.

**Acute Toxicity - Oral** LD<sub>50</sub> (rat) : 300 ma/ka **Acute Toxicity - Dermal** : > 3500 mg/kgLD<sub>50</sub> (rabbit)

**Acute Toxicity -**

LC<sub>50</sub> (rat- 4 hr) : > 1.99 mg/L (normal conc.)

Inhalation

**Eye Irritation** Slight irritant (rabbit). **Skin Irritation** Mild irritant (rabbit).

**Skin Sensitization** Not a sensitizer (guinea pig).

Carcinogenicity Data indicates no carcinogenic effects Reproductive Toxicity Data indicates no teratogenic effects.

Mutagenecity Non-mutagenic

#### 12. ECOLOGICAL INFORMATION:

**Acute Toxicity - Fish** The following data is for the active ingredient, cypermethrin:

96 -hour LC<sub>50</sub> Rainbow Trout  $0.69 \, \mu g/l$ 96 -hour LC<sub>50</sub> Sheepshead minnows 2.73 µg/l

**Acute Toxicity - Daphnia** 

48-hour LC<sub>50</sub> Daphnia  $0.15 \, \mu g/l$ 

**Acute Toxicity - Other Organisms** 

24-hour LD50 Bee 0.035 ua/bee (Highly toxic to honey bee in laboratory test, but field applications at recommend dosage do not put hives at risk)

Mallard Duck Oral LD<sub>50</sub> > 10,000 mg/kg

Chicken Oral LD<sub>50</sub> > 2000 mg/kg



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Persistence/Degradability

Other Precautions
Environmental Protection

Average field half-life of cypermethrin is 14-28 days.

DO NOT contaminate dams, rivers or streams with pesticide or used containers. Spray drift can cause damage, read the label for more information. Marine pollutant.

13. DISPOSAL CONSIDERATIONS:

**Product Disposal** Pesticides wastes are acutely hazardous. Dispose of product only by using according to the

label, or at an approved landfill.

**Container Disposal** Do not use this container for any other purpose.

Triple rinse containers, add rinsate to the spray tank, then offer for recycling / reconditioning or puncture top, sides and bottom and dispose of in landfill in accordance with local

regulations.

If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION:

Transport Information It is a good practice to separate this product from food, food related materials, animal

feedstuffs, seed or fertilizers during transport.

Storage and Transport

Follow the precautions indicated in this MSDS, Section 7: HANDLING AND STORAGE. 3351

UN Number (Sea Transport)

IMO Class/Packing Group

Class 6; Packing Group III

IMO Marine Pollutant M

Marine Pollutant

**IMO Proper Shipping** 

Pyrethroid pesticide, liquid, toxic, flammable

Name

15. REGULATORY INFORMATION:

**Risk Phrase:** R36/38 Irritating to eyes and skin

Safety Phrase: S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Use appropriate containment to avoid environment contamination.

Hazard Category Class III (Malaysia Regulation)

Packaging and Labeling HARMFUL

KEEP AWAY FROM FOODSTUFF AND CHILDREN.

READ THE LABEL BEFORE USE.

**16. OTHER INFORMATION:** 

Contact Person / Point Nufarm Malaysia Sdn Bhd

Mr. PMG Pitchai

Phone: (+60 3) 31761888 Ext 217
Position: Safety & Health Officer
DOSH Reg No: JKKP IS 127/438/2/2294
Email: pmg.pitchai@my.nufarm.com

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END OF MSDS ...

**Note:** While the information given herein is, to the best of our knowledge, correct and is given in good faith, we make no warranty, with respect hereto and disclaim all liability from reliance thereon. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose.