## BRIGHT RESOURCE TECHNOLOGY SDN. BHD

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# SAFETY DATA SHEET

**DELTAMETHRIN 2.5% EC**CAS Number: 52918-63-5

Trade Name: DETRAL 2.5 EC

**Common Name**: Deltamethrin

**Chemical Name**: (S)- α-Cyano-3-Phenoxybenzyl (1R3R)-3-(2,2 dibromovinyl)-2,2-dimethyl

cyclopropane carboxylate (IUPAC)

**Chemical Formula**: C<sub>22</sub>H<sub>19</sub>BrNO<sub>3</sub>

**Molecular Weight:** 505.5

## 1. Substance/ Preparation and company identification

Distributer: Bright Resource Technology Sdn. Bhd.

No.11-2, Jalan Meranti SD 13/4,

Bandar Sri Damansara, 52200 Kuala Lumpur.

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2. COMPOSITION/ INFORMATION ON INGREDIENTS		
S.No	Ingredient	Concentration (%) w/w
i.	Deltamethrin	2.5
ii.	Inert Ingredient	97.5

## 3. HAZARDS INDENTIFICATION

Risk advice to man and the environment:



Flammable Harmful by inhalation and if swallowed Irritating to respiratory system Risk of serious damage to eyes



Very toxic to aquatic organism, may cause long term adverse effects in the aquatic environment

Harmful: May cause lung damage if swallowed

Repeated exposure may cause skin dryness or cracking.

### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poison Information Center.

**Ingestion**: Induce vomiting by tickling back of throat. Repeat it until the vomitus is clear. Do not induce vomiting if the patient is unconscious.

Eyes: Rinse eyes well with water for at least 15 minutes.

**Skin**: Remove any contaminated clothing, wash skin thoroughly.

**Inhalation**: Remove from source of contaminated to open space/ fresh air.

Antidote: Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water spray, alcohol resistant foam, dry powder, carbon dioxide (CO<sub>2</sub>)

Extinguishing media which must not be used for safety reasons: High volume water jet.

Specific hazards during the fighting: In case of fire the evolution of dangerous gases is possible

Special protective equipment for fire-fighters: In the event of fire and/ or explosion do not breathe fumes.

Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain firefighting water by diking area with sand or earth.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with spilled product or contaminated surfaces

When dealing with a spillage do not eat, drink or smoke

Keep people away from and upwind of spill/leak.

Environmental precautions: Do not allow to get into surface water, drains and ground water

Methods of cleaning up: Keep in suitable, closed containers for disposal

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder).

Clean floors and contaminated objects with plenty of water.

## 7. HANDLING AND STORAGE

Handling

Advice on safe handling: No specific precautions required when handling unopened packs/ containers:

follow relevant manual handling advice.

Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion: Keep away from heat and sources of ignition- No smoking

Vapours may form explosive mixture with air

Storage

Requirements for storage areas and containers: Keep containers tightly closed in a cool, well-ventilated

place

Store in a place accessible by authorized persons only

Keep away from direct sunlight

Advice on common storage: Keep away from food, drink and animal feedingstuffs.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Hand Protection: Elbow length nitrile or neoprene gloves

**Eye Protection:** Goggles or face shield, eye wash readily available

**Body Protection:** Wear or long sleeved shirt and long trousers and boots or shoes.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** : Liquid

**Appearance** : Pale yellow colored liquid

**Emulsion stability**: No separation or sediment

**Acidity** : 0.005 (as of  $H_2SO_4$ )

## 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal condition

**Incompatible with other material:** Strong oxidizers

Reactivity: None

**Hazardous Reaction Product: None** 

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

Oral LD50  $\Rightarrow$  2000 mg/kg b.w.in rats

Dermal LD50 :>2000 mg/kg b.w

Inhalation LC50 : 2.2 mg/ai./l (4hr)
Eye contact : Mild irritant
Skin contact : Mild irritant
Skin sensitization : Non sensitizer

Mutagenic potential : Non mutagenic at normal doses Reproductive hazard potential: No reproductive hazard

Chronic/ sub chronic toxicity studies: NOEL in rat-2.1 mg/kg b.w (2 years)

Carcinogenic potential: Non carcinogenic Teratogenicity: Non teratogenic

## 12. ECOLOGICAL INFORMATION

Toxic to bees: LD50 (oral), 79 µg/bee, (contact) 51 µg/bee

Birds: Acute oral LD50 for mallard duck > 4640 mg/kg. 8-day dietary LC50 for mallard duck > 8039, quail >5620 mg/kg diet. NOEL for reproduction mallard duck > 70, bobwhite quail >55 mg/kg daily.

Fish: Non-toxic to fish under natural conditions.

Daphnia: LC50 (48h) 3.5 μg/L

## 13. DISPOSAL CONSIDERATION

Product: In accordance with current regulations and if necessary after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Contaminated packaging: Triple rinse containers

Do not re-use empty containers

Not completely emptied packaging should be disposed of as hazardous waste.

# 14. TRANPSORT INFORMATION

Chemical: Pyrethroid pesticide, liquid, toxic, flammable, flashpoint between 23 & 61 °C.

IMCO Class : 6.1 UN No : 3351 IMDG Code No. : 6220

### 15. PACKING INFORMATION

Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Classification: Hazard warning labelling compulsory

Symbol (s): Xn : Harmful

N : Dangerous for the environment

R-phrases(s):

R10 : Flammable

R20/22: Harmful by inhalation and if swallowed

R37 : Irritating to respiratory systemR41 : Risk of serious damage to eyes

R50/53: Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

R65 : Harmful may cause lung damage if swallowed

R66 : Repeated exposure may cause skin dryness or cracking

## S-phrase(s):

S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S35 : This material and its container must be disposed of in a safe way

S39 : Wear eye/ face protection

S57 : Use appropriate container to avoid environmental contamination

S62 : If swallowed, do not induce vomiting: seek medical advice immediately and show this container

or label.

Exceptional labelling: To avoid risks to man and the environment, comply with the instructions for use.

### 16. OTHER INFORMATION

SDS Created Date: January 2019

Revision Date: Original

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