



Date of Issue: Nov 16, 2015  
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## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE AND MANUFACTURER

#### PRODUCT DETAILS

Trade name : **PERSECT 0.5DP**  
Chemical name : 3-phenoxybenzyl (1*RS*,3*RS*;1*RS*,3*SR*)-3-(2,2-dichlorovinyl)-  
2,2-dimethylcyclopropanecarboxylate  
Chemical class : Pyrethroid  
Molecular formula : C<sub>21</sub>H<sub>20</sub>Cl<sub>2</sub>O<sub>3</sub>  
Recommended use : Insecticide  
Formulation : Dustable Powder (DP)

#### MANUFACTURER DETAILS

Manufacturer : **Hextar Chemicals Sdn. Bhd.**  
Address : Lot 5, Jalan Perigi Nenas 7/3, Fasa 1A,  
Pulau Indah Industrial Park,  
42920 Pelabuhan Klang,  
Selangor Darul Ehsan, Malaysia.  
Telephone : 603-3101 3333  
Facsimile : 603-3101 3230  
Website : [www.hextar.com](http://www.hextar.com)  
Contact : Mr. Wong Chee Chow  
**Emergency contact** : National Poison Centre  
1-800-88-8099 (office hours)  
012-4309499 (after office hours)

### SECTION 2: HAZARDS IDENTIFICATION

#### Potential Health Effects & Symptoms

Eyes : May cause eye irritation.  
Skin : May cause skin irritation.  
Ingestion : Fatal if swallowed.  
Inhalation : Fatal if inhaled.  
Chronic exposure : Unlikely to cause carcinogenic effects.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (% w/w)
Permethrin	52645-53-1	0.5
Inert ingredients	-	Up to 100.0



#### SECTION 4: FIRST AID MEASURES

Eyes	: Immediately flush eyes with copious amounts of water and get medical attention.
Skin	: Immediately wash with soap and water. If skin irritation occurs, consult a physician.
Ingestion	: Do not induce vomiting. Get immediate medical attention.
Inhalation	: Move person to an area of fresh air and give artificial respiration if necessary. If breathing difficulty persists, get immediate medical attention.
Note to physician	: If swallowed, perform gastric lavage with care to prevent aspiration. Treatment is symptomatic.

#### SECTION 5: FIRE FIGHTING MEASURES

Flash point	: Not applicable
Flammability	: Flammable
Extinguishing media	: Foam, carbon dioxide, dry chemical, water fog
Fire fighting protective equipment	: Fire fighters should wear self-contained breathing apparatus and full protective clothing.
Special hazards	: Contains petroleum distillates.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### Spill / Leaks

Isolate area and keep unauthorized people away. Wear proper protective equipment. Sweep up and place in an approved chemical container. Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

#### SECTION 7: HANDLING AND STORAGE

##### Handling precaution

Read and observe all precautions on product label. Handle and open container with care. Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Avoid eye and skin contact with this material. Wash thoroughly with soap and water after handling.

##### Storage precaution

Store in a cool dry area; away from excessive heat and open flames. Do not store near any material intended for use or consumption by human or animals. Keep out of reach of children and domestic animals.



## SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

### Engineering measures

Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below exposure limits.

### Personal Protective Equipment

Wear chemical protective goggles or a face shield to avoid eye contact. Wear chemical-resistant gloves, socks and footwear to avoid skin contact. Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. Wear air purifying respirator based on the airborne concentrations.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: White powder
Odour	: Characteristic odour
pH	: 7.0 – 9.0 (1% suspension in water)
Sieve test	: Minimum 95% passing through 45 µm test sieve

## SECTION 10: STABILITY AND REACTIVITY

Chemical stability	: Stable under normal storage conditions.
Conditions to avoid	: High temperatures.
Hazardous decomposition products	: Thermal decomposition may give off chlorine gas, hydrogen, chloride, carbon monoxide, carbon dioxide and nitrogen oxides.
Hazardous polymerization	: Will not occur.
Compatibilities with other chemicals	: Incompatible with strong oxidizers.

## SECTION 11: TOXICOLOGICAL INFORMATION

### ANIMAL TOXICITY DATA – PRODUCT

#### Acute Toxicity

Oral	: LD <sub>50</sub> for rats	: 4000 mg/kg (tech)
Dermal	: LD <sub>50</sub> for rabbits	: >2000 mg/kg (tech)
Inhalation	: LC <sub>50</sub> (3 h) for rats	: >0.69 mg/L (tech)
Skin irritation	: Non-irritating (rabbits)	
Eye irritation	: Non-irritating (rabbits)	
Sensitization	: Not a skin sensitizer (guinea pigs)	
Chronic	: None observed	



## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Fish	: LC <sub>50</sub> (48 h) for rainbow trout	: 5.4 µg/L (tech)
	: LC <sub>50</sub> (48 h) for bluegill sunfish	: 1.8 µg/L (tech)
Birds	: LD <sub>50</sub> for mallard ducks	: >9800 mg/kg (tech)
	: LD <sub>50</sub> for chickens	: >3000 mg/kg (tech)
Daphnia	: LC <sub>50</sub> (48 h)	: 0.6 µg/L (tech)
Bees	: Toxic to bees.	
	: LD <sub>50</sub> (24 h, oral)	: 0.098 µg/bee (tech)
	: LD <sub>50</sub> (24 h, topical)	: 0.029 µg/bee (tech)

Persistence and Degradation : Permethrin is rapidly degraded in soil and water.

## SECTION 13: DISPOSAL CONSIDERATIONS

Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Do not reuse product containers. Dispose of product containers, waste containers and residues in a sanitary landfill, by incineration or by other procedures should be done according to local, state health and environmental regulations.

## SECTION 14: TRANSPORT INFORMATION

UN number	: 2588
IMCO number	: 6.1
Packing group	: III
Special shipping instruction	: Should be transported or stored in clearly labelled rigid and leak-proof containers, under lock and key, secure from access by unauthorized persons and children. No food or drink should be transported or stored in the same compartment.

## SECTION 15: REGULATORY INFORMATION

EEC	: Information on the label.
Safety advice	: Avoid release to the environment. Please refer to special instruction/safety data sheets.
National regulations	: Local regulation, if any, should be applied to classification and labelling.



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<b>SECTION 16: OTHER INFORMATION</b>
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Manufacturer Disclaimer

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In case of general inquiries:

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