

**BRIGHT RESOURCE TECHNOLOGY SDN. BHD.**

(Co. No. 517165-A)

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

Bandar Sri Damansara,

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## **SAFETY DATA SHEET**

**ALPHA CYPERMETHRIN 1.5 SC**

CAS Number: 67375-30-8

**Trade Name:** Alphacide 1.5 SC

**Common Name:** Alpha-Cypermethrin

**Chemical Name:** [1 $\alpha$ (S\*),3 $\alpha$ ]-( $\pm$ )-cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethylenenyl)-2,2-dimethyl=cyclopropanecarboxylate

**Chemical Formula:** C<sub>22</sub>H<sub>19</sub>Cl<sub>2</sub>NO<sub>3</sub>

**Molecular Weight:** 416.3 gm/mol

### **1. SUBSTANCE/ PREPARATION AND COMPANY IDENTIFICATION**

**Chemical nature:** Insecticide

**Distributor:** Bright Resource Technology Sdn. Bhd.

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### **2. COMPOSITION/ INFORMATION ON INGREDIENTS**

S.No	Ingredient	Concentration (%)
i.	<b>ALPHA CYPERMETHRIN</b>	<b>1.5</b>
ii.	Other ingredients	<b>98.5</b>

### **3. HAZARDS IDENTIFICATION OF PREPARATION**

According to Regulation (EC) No. 1272/2008 (CLP)

Aquatic Acute 1

Aquatic Chronic 1

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards: Very toxic to aquatic organism, may cause long term adverse effects in the aquatic environment. May cause paranesthesia.

For the classifications not written out in full in this section the full text can be found in section 16.

Label elements

Globally Harmonized System, EU (GHS)



Signal Word: Warning

Hazard Statement

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P262 Do not get in eyes, on skin or on clothing

Precautionary Statements (Response):

P391 Collect spillage.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection

Labelling of special preparations (GHS): May cause paraesthesia. ALPHA CYPERMETHRIN  
According to Directive 67/548/EEC or 1999/45/EC

Hazard symbols (s)

N Dangerous for the environment.



R-phrase (s)

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

S-phrase(s)

S2 Keep out of the reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S20/21 When using do not eat, drink or smoke.

S24 Avoid contact with skin.

S29/35 Do not empty into drains, this material and its container must be disposed of in a safe way.

S57 Use appropriate container to avoid environmental contamination.

#### 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or poison information center.

**Ingestion:** Harmful in contact if swallowed keep locked up and out of reach of children.

**Eye contact:** In case of with eyes, rinse immediately with plenty of water and seek medical aid.

**Skin contact:** After contact with skin, wash immediately with plenty of water and soap.

**Inhalation:** Remove the patient from the exposure area to fresh air immediately. If breathing has stopped perform the artificial respiration. Keep person warm and rest. Get medical attention immediately.

**Antidote:** Phenobarbital or diphenyl hydration or their mixture may be given. Treat symptomatically. Please see attached leaflet.

#### 5. FIRE FIGHTING MEASURES

Flash Point: >24.5 °C

Flash point method: Closed up method

Fire and explosion hazard: Slight fire and explosion hazard

Extinguishing media: Dry chemical, CO<sub>2</sub>, halon and water spray or standard foam. For larger fires use water spray, fog or standard foam.

Fire-fighting instructions: Move containers from fire if possible. Fight fire from maximum distance. Stay away from storage tank ends. Extinguish only if flow can be stopped. Do not spill material with higher pressure water streams. Dike fire control water for later disposal. Use agents suitable for type of surrounding fire.

Fire-fighting equipment: Self-contained breathing apparatus with full face piece. Full fire-fighting turnout gear.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Small Spills

Don't touch spill material. Stop leak if you can any risk spillage. Use water spray to reduce for small spill, take up with absorbent material.

##### Large Spill

For larger spills dike far ahead of spill for later disposal.

#### 7. HANDLING AND STORAGE

##### Normal Handling

Always wear recommended personal protective equipment use with adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapor or mist. Open containers carefully to release possible internal pressure before completely removing closure.

##### Storage Recommendation

Store in a cool, dry, well ventilated area in a non-combustible structure. Keep containers closed and protect containers from physical damage. Keep away from other sources of ignition. Keep away from food, feed and drinking water. Keep from freezing.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Personal Protective Equipment:

**Eye protections:** Employee must wear splash proof or dust resistant safety goggles to prevent eye contact with this substance.

**Skin protection:** Employee must wear appropriate (impervious) clothing and equipment to prevent repeated skin contact with this substance. Employees must wear protected gloves to prevent contact with this substance.

**Respiratory protection:** Typical protective equipment cartridge. Respirator with an organic vapors cartridge, gas mask with organic vapors canister, air purifying respirator with a full face piece operated in a pressure mode, self-contained and breathing apparatus.

Additional Recommendation: Safety showers and eyewash station convenient to work area. Protective clothing, boots, face shield and hat, cleaned daily, if exposure to liquid is possible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	: Off white to pale yellow liquid
<b>Melting Point</b>	: 220 °C at 9.3 Pa.
<b>Specific gravity</b>	: 1.02 at 25 °C
<b>Vapour pressure</b>	: 1.7 nPa (1.7 x 10 <sup>7</sup> N/m <sup>2</sup> )
<b>Solubility</b>	: In water 0.01 mg/l (25°C). in acetone 620, dichloromethane 550, cyclohexane 515, ethyl acetate 440, chloroform 420, acetophenone 390, O-xylene 350. In maize oil 19-20 ethylene glycol <1, both in g/l g at 20°C.
<b>Flash point</b>	: 78°C

## 10. STABILITY AND REACTIVITY

Chemical stability

Very stable in neutral and acidic media. Hydrolysis in strongly alkaline media. Thermally stable up to 220°C.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute LD50 Oral Rat</b>	: > 2100 mg/kg
<b>Acute LD50 Dermal</b>	: > 4200 mg/kg (rabbit)
<b>Acute LD50 Inhalation</b>	: LC50 (4 h) rat 0.32 mg/L

### Medical Conditions Aggravated by Exposure:

Symptoms of may be hypersensitivity, nervous instability, tremors, ataxia urinary inconsistent and convulsions result on ingestion or inhalation, contact eyes causes sever irritation to eye and itching, burning and tingling are some symptoms upon contact with skin.

<b>Carcinogenicity</b>	: DNA
<b>Mutagenic Data</b>	: Salmonella typipharium no mutagenic charges in vivo.

## 12. ECOLOGICAL INFORMATION

**Fish toxicity:** Acute LD50 : >10,000 mg/kg body weight to quail and mallard ducks

**Avian toxicity:** LC50 (96h) rainbow trout: 0.0028 mg/l

**Bee toxicity:** 24h LD50 (24h): 0.06 µg/bee, Dermal LD50: 0.03 µg/bee

### 13. DISPOSAL CONSIDERATION

**Waste:** Pesticide waste are toxic. Dispose of in accordance with applicable federal, state and local laws and regulations

**Container:** Refer to product label

### 14. TRANSPORT INFORMATION

**Proper shipping description** : Agriculture insecticide, liquid toxic, corrosive

**Labels required** : Class 3, Flammable (Primary)  
Class 6, Division 6.1 (Subsidiary)  
Class 8, Corrosive (Subsidiary)

### 15. PACKING INFORMATION

FIFRA: All Pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented only when this product is handled outside of the normal use and application as a pesticide.

### 16. DISCLAIMER

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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