

## SAFETY DATA SHEET

Page 1 of 5

### Alpha-cypermethrin 10% SC (with Z-9-tricosene)

 Revision 0  
 Revision date 17-Mar-2008

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

**Product name** Alpha-cypermethrin 10% SC (with Z-9-tricosene)

**Company** Hockley International Ltd  
 Hockley House  
 354 Park Lane  
 Poynton  
 Stockport  
 SK12 1RL

**Telephone** 01625 878590

**Fax** 01625 877285

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

##### Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
1,2-Benzisothiazol-3(2H)-one	0 - 0.5%	2634-33-5	220-120-9	Xn; R22 Xi; R38-41 R43 N; R50
Mono ethylene glycol (Ethane-1,2-diol vapour)	1 - 10%	107-21-1	203-473-3	Xn; R22
Distilled Water	60 - 70%	7732-18-5		
Silicon Dioxide (Chemically Prepared)	1 - 10%	7631-86-9		Xi; R36/37/38
Xanthan Gum	0 - 0.5%	11138-66-2		
Polyarylphenyl Ether (Amine Salt)	1 - 10%	105362-40-1		
Titanium (IV) Oxide (Titanium dioxide respirable)	1 - 10%	13463-67-7		
Antifoaming agent	0 - 0.5%			
Z-9 Tricosene	0 - 0.5%	27519-02-4		
Alpha-cypermethrin	10% (w/v) min	67375-30-8	257-842-9	T; R25 Xn; R48/22 Xi; R37 N; R50/53

#### 3. HAZARDS IDENTIFICATION

**Main hazards** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

#### 4. FIRST AID MEASURES

**Skin contact** Remove contaminated clothing. Seek medical attention if irritation or symptoms persist. Wash off immediately with plenty of soap and water.

**Eye contact** Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention. May cause irritation to eyes.

**Inhalation** If breathing stops, provide artificial respiration. Move the exposed person to fresh air. Seek medical attention.

**Ingestion** Drink 1 to 2 glasses of water. If ingested, induce vomiting, but only under medical supervision. Seek medical attention. Never give anything by mouth to an unconscious person.

**General information** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Keep the affected person warm and at rest.

# Alpha-cypermethrin 10% SC (with Z-9-tricosene)

Revision 0

Revision date 17-Mar-2008

## 5. FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Carbon dioxide (CO2) Dry chemical. Foam. Water spray. Use extinguishing media appropriate to the surrounding fire conditions. Do NOT use []. Water jet.
<b>Fire hazards</b>	Do not release chemically contaminated water into drains, soil or surface water. Take care to retain water used for extinguishing and dispose of according to local regulations.
<b>Protective equipment</b>	In case of fire and/or explosion do not breathe fumes. Wear suitable respiratory equipment when necessary.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Keep personnel away from spill. Wear suitable protective equipment.
<b>Environmental precautions</b>	Do not discharge into drains or rivers. Do not flush into surface water. Do not let product contaminate subsoil.
<b>Clean up methods</b>	Absorb with inert, absorbent material. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Do not breathe gas/fumes/vapour/spray. Do not eat, drink or smoke in areas where this product is used or stored. Do not empty into drains. Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Open container carefully. Wear suitable protective equipment.
<b>Storage</b>	Keep out of the reach of children. Store in a cool, dry area. Store in original container.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

Mono ethylene glycol (Ethane-1,2-diol vapour)	WEL 8-hr limit ppm: 20 WEL 15 min limit ppm: 40	WEL 8-hr limit mg/m3: 52 WEL 15 min limit mg/m3: 104
Mono ethylene glycol (Ethane-1,2-diol particulate)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: -
Titanium (IV) Oxide (Titanium dioxide respirable)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 4 WEL 15 min limit mg/m3: -
Titanium (IV) Oxide (Titanium dioxide total inhalable)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m3: 10 WEL 15 min limit mg/m3: -

<b>Engineering measures</b>	Ensure adequate ventilation of the working area.
<b>Occupational exposure controls</b>	Keep away from food, drink and animal feedingstuffs.
<b>Respiratory protection</b>	Wear suitable protective equipment.
<b>Hand protection</b>	Chemical resistant gloves (plastic)
<b>Eye protection</b>	Avoid contact with eyes. In case of splashing, wear: Safety glasses. Ensure eye bath is to hand.
<b>Protective equipment</b>	Protect clothing from contact with the product. Wear suitable protective equipment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Liquid.
<b>Colour</b>	White.
<b>Flash point</b>	>65°C
<b>Relative density</b>	1.02

# Alpha-cypermethrin 10% SC (with Z-9-tricosene)

Revision 0  
Revision date 17-Mar-2008

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to avoid</b>	Direct sunlight.
<b>Materials to avoid</b>	Strong oxidising agents. Bases.
<b>Hazardous decomposition products</b>	Burning produces compounds of carbon, nitrogen, oxygen and chlorine.

## 11. TOXICOLOGICAL INFORMATION

### Toxicological information

Alpha-cypermethrin 10% SC (with Z-9-tricosene)	Dermal Rat LD50 = 20000 mg/kg Oral Rat LD50 = 4740 mg/kg Dermal Rabbit LD50 = 20000 mg/kg Inhalation Rat LC50/1 h = 5.0 mg/l (R<0.2)
1,2-Benzisothiazol-3(2H)-one	Dermal Rat LD50 = > 10,000 mg/kg Oral Rat LD50 = > 5,000 mg/kg Dermal Rabbit LD50 = > 10,000 mg/kg Inhalation Rat LC50/ 4 h = > 25.0 mg/l
Xanthan Gum	Oral Rat LD50 = >5000 mg/kg
Polyarylphenyl Ether (Amine Salt)	Dermal Rat LD50 = > 5,000 mg/kg Oral Rat LD50 = > 20,000 mg/kg Dermal Rabbit LD50 = > 20,000 mg/kg Inhalation Rat LC50/ 4 h = > 20.0 g/l
Alpha-cypermethrin	Dermal Rat LD50 = 2000 mg/kg Oral Rat LD50 = 474 mg/kg Dermal Rabbit LD50 = 2000 mg/kg Inhalation Rat LC50/4 h = 0.32 mg/l air

<b>Corrosivity</b>	May cause irritation to eyes. May cause irritation to skin.
<b>Sensitization</b>	May cause sensitisation by skin contact.
<b>Mutagenic effects</b>	No mutagenic effects reported.
<b>Carcinogenic effects</b>	No carcinogenic effects reported.
<b>Reproductive toxicity</b>	No teratogenic effects reported.

# Alpha-cypermethrin 10% SC (with Z-9-tricosene)

Revision 0  
Revision date 17-Mar-2008

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

1,2-Benzisothiazol-3(2H)-one	Rainbow trout LC50/96h = 121.3 ug/l Bluegill sunfish LC50/96h = 186.5 ug/l Quail LC50/8 days = > 10,000 mg/kg
Xanthan Gum	Fish LC50/96h = 420 mg/l
Polyarylphenyl Ether (Amine Salt)	Daphnia EC50/48h = 0.36 mg/l mg/l Lepomis_Macrochirus LC50/96h = 1.22 mg/l Rainbow trout LC50/96h = 1.66 mg/l Quail LC50/8 days = > 10,000 mg/kg
Alpha-cypermethrin	Daphnia LC50/48h = 0.0001 mg/l Rainbow trout LC50/96h = 0.0028 mg/l

## 13. DISPOSAL CONSIDERATIONS

<b>General information</b>	Do not empty into drains. NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
<b>Disposal methods</b>	Can be incinerated if in compliance with []. Local and national regulations.
<b>Disposal of packaging</b>	Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with []. Local and national regulations.

## 14. TRANSPORT INFORMATION

### ADR/RID

<b>UN</b> 3082	<b>Packing group</b> III
<b>Class</b> 9	<b>Hazard ID</b> 90
<b>Proper Shipping</b> ENVIRONMENTALLY	
<b>Name</b> HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains alpha-cypermethrin).	

### IMDG

<b>UN</b> 3082	<b>Packing group</b> III
<b>Class</b> 9	<b>Marine pollutant</b> YES
<b>EmS Code</b> F-A S-F	

### IATA

<b>UN</b> 3082	<b>Packing group</b> III
<b>Class</b> 9	<b>Subsidiary risk</b> -
<b>Packing Instruction</b> 914 (Cargo)	<b>Maximum quantity</b> 450 L
<b>Packing Instruction</b> 914 (Passenger)	<b>Maximum quantity</b> 450 L

# Alpha-cypermethrin 10% SC (with Z-9-tricosene)

Revision 0

Revision date 17-Mar-2008

## 15. REGULATORY INFORMATION

**Symbols**

Xn - Harmful; N - Dangerous for the environment

**Risk phrases**

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R22 - Harmful if swallowed.

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

**Safety phrases**

S29 - Do not empty into drains.

## 16. OTHER INFORMATION

**Text of risk phrases in**

R22 - Harmful if swallowed.

**Section 2**

R25 - Toxic if swallowed.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R37 - Irritating to respiratory system.

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

R43 - May cause sensitisation by skin contact.

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50 - Very toxic to aquatic organisms.

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