

SAFETY DATA SHEET

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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.

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5. FIRE FIGHTING MEASURES

Extinguishing media	Carbon dioxide (CO ₂) Dry chemical. Foam. Water spray. Use extinguishing media appropriate to the surrounding fire conditions. Do NOT use []. Water jet.
Fire hazards	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.
Protective equipment	In case of fire and/or explosion do not breathe fumes. Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

Handling	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.
Storage	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/m ³ : 52 WEL 15 min limit mg/m ³ : 104
Mono ethylene glycol (Ethane-1,2-diol particulate)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m ³ : 10 WEL 15 min limit mg/m ³ : -
Titanium (IV) Oxide (Titanium dioxide respirable)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m ³ : 4 WEL 15 min limit mg/m ³ : -
Titanium (IV) Oxide (Titanium dioxide total inhalable)	WEL 8-hr limit ppm: - WEL 15 min limit ppm: -	WEL 8-hr limit mg/m ³ : 10 WEL 15 min limit mg/m ³ : -

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

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Direct sunlight.
Materials to avoid	Strong oxidising agents. Bases.
Hazardous decomposition products	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

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

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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

General information	Do not empty into drains. NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
Disposal methods	Can be incinerated if in compliance with []. Local and national regulations.
Disposal of packaging	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

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

IMDG

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

IATA

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

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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.