



SAFETY DATA SHEET

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Alphamost Plus (with Z-9-tricosene)

Revision 2
Revision date 13-Nov-2009

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Alphamost Plus (with Z-9-tricosene)
Company Hockley International Ltd
Hockley House
354 Park Lane
Poynton
Stockport
SK12 1RL
mail@hockley.co.uk
www.hockley.co.uk
Telephone 01625 878590
Fax 01625 877285
Emergency telephone number 01625 878590 (9am - 5pm GMT)
Product code ACYZTR0100SCA
Intended use Insecticide. Pyrethroid.

2 HAZARDS IDENTIFICATION.

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

3 . COMPOSITION / INFORMATION ON INGREDIENTS.

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Alpha- cypermethrin	1-10%	67375-30-8	257-842-9	T; R25 Xn; R48/22 Xi; R37 N; R50/53
Distilled Water	60-70%	7732-18-5	231-791-2	
1,2 Ethanediol	1-10%	107-21-1	203-473-3	Xn; R22
Titanium (IV) Oxide	1-10%	13463-67-7	236-675-5	
Polyarylphenyl Ether (Amine Salt)	1-10%	105362-40-1		
Silica Dispersing Agent.	1-10%	7631-86-9	231-545-4	Xi; R36/37/38
Xanthan Gum	0-0.5%	11138-66-2	234-394-2	
Emulsion of Polydimethylsiloxanes Silicone Antifoam	0-0.5%	63148-62-9		
Z-9 Tricosene	0-0.5%	27519-02-4	248-505-7	
Proxel GLX	0-0.5%	2634-33-5	220-120-9	Xn; R22 Xi; R38-41 R43 N; R50

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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	Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed. 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.

5. FIRE FIGHTING MEASURES

Extinguishing media	Carbon dioxide (CO ₂) Dry chemical. Foam. Use extinguishing media appropriate to the surrounding fire conditions. Water. 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.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

1,2 Ethanediol	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
1,2 Ethanediol	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
1,2 Ethanediol	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	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	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	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.
pH	5 - 7
Flash point	>65°C
Flammability limits	Not highly flammable
Relative density	1.02
Water solubility	soluble in water.

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.

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11. TOXICOLOGICAL INFORMATION

Toxicological information The values for the overall toxicity of the product are calculated using a formula.

Alphamost Plus (with Z-9-tricosene)	Dermal Rat LD50 = 20000 mg/kg Oral Rat LD50 = 570 mg/kg Inhalation Rat LC50/4 h = 4.75 mg/l (R<0.2)
Alpha- cypermethrin	Dermal Rat LD50 = 2000 mg/kg Oral Rat LD50 = 57 mg/kg Inhalation Rat LC50/4 h = 0.593 mg/l
Distilled Water	Dermal Rat LD50 = 20,000 mg/kg Oral Rat LD50 = 4740 mg/kg Dermal Rabbit LD50 = 20,000 mg/kg Inhalation Rat LC50/1 h = 5.0 mg/l (R=0.00)
1,2 Ethanediol	Oral Rat LD50 = 4700 mg/kg
Titanium (IV) Oxide	Oral Rat LD50 = >10000 mg/kg
Polyarylphenyl Ether (Amine Salt)	Dermal Rat LD50 = >2,000 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
Emulsion of Polydimethylsiloxanes Silicone Antifoam	Oral Rat LD50 = >17000 Dermal Rabbit LD50 = >2000
Z-9 Tricosene	Oral Rat LD50 = > 3000 mg/kg
Proxel GLX	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

Acute toxicity	Harmful if swallowed.
Corrosivity	May cause irritation to eyes. May cause irritation to skin.
Sensitization	No sensitization effects reported.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Harmful: danger of serious damage to health by prolonged exposure if swallowed.
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 The values for the overall ecotoxicity of the product are calculated using a formula.

Alphamost Plus (with Z-9-tricosene)	Algae LC50/96h = 1 mg/l Daphnia EC50/48h = 0.003 mg/l Fish LC50/96h = 0.028 mg/l
Alpha- cypermethrin	Algae EC50/72h = 0.1 mg/l Daphnia EC50/48h = 0.0003 mg/l Fish LC50/96h = 0.0028 mg/l
1,2 Ethanediol	Daphnia EC50/48h = 41000 mg/l Fish LC50/96h = 10000 mg/l
Titanium (IV) Oxide	Daphnia EC50/48h = 1000 mg/l Fish LC50/96h = 1000 mg/l
Polyaryphenyl Ether (Amine Salt)	Fish LC50/96h = 100 mg/l
Xanthan Gum	Daphnia EC50/48h = 980 mg/l Fish LC50/96h = 320 mg/l
Emulsion of Polydimethylsiloxanes Silicone Antifoam	Daphnia EC50/48h = 100 mg/l Fish LC50/96h = 100 mg/l
Proxel GLX	Rainbow trout LC50/96h = 121.3 ug/l Bluegill sunfish LC50/96h = 186.5 ug/l Quail LC50/8 days = > 10,000 mg/kg

Mobility ICOC = 57889 ml/l (*) Technical material has been reported as non-mobile (*)

Degradability DT50: 35 days(*) Technical grade active ingredient is moderately persistent(*)

Bioaccumulation Bio-concentration factor of technical grade active ingredient: 1204 (*) The technical grade active ingredient is reported to have a high bioaccumulation potential.

Further information Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.

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14. TRANSPORT INFORMATION

ADR/RID

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

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

<p>UN 3082 Class 9</p> <p>Packing Instruction 914 (Cargo)</p> <p>Packing Instruction 914 (Passenger)</p>	<p>Packing group III Subsidiary risk -</p> <p>Maximum quantity 450 L</p> <p>Maximum quantity 450 L</p>
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15. REGULATORY INFORMATION

Symbols

Xn - Harmful; N - Dangerous for the environment



Risk phrases

R22 - Harmful if swallowed.
R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

S1/2 - Keep locked up and out of the reach of children.
S29 - Do not empty into drains.
S60 - This material and its container must be disposed of as hazardous waste.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

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16. OTHER INFORMATION

Text of risk phrases in Section 3.

R22 - Harmful if swallowed.
 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.

Further information

Note: Physical and Chemical properties are typical values and do not constitute a specification. The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Data sources

(*) Information taken from "IUPAC AGROCHEMICAL INFORMATION":
<http://sitem.herts.ac.uk/aeru/iupac/index.htm>.

Revision

This document differs from the previous version in the following areas:

- 1 - intended use.
- 11 - toxicological information.
- 11 - acute toxicity.
- 11 - sensitization.
- 11 - repeated or prolonged exposure.
- 12 - ecotoxicity.
- 12 - mobility.
- 12 - degradability.
- 12 - bioaccumulation.
- 12 - further information.
- 15 - safety phrases.
- 16 - further information.
- 16 - data sources.
- 4 - ingestion.
- 5 - extinguishing media.