



SAFETY DATA SHEET

Page 1 of 7

Deltamost SC

Revision 1
Revision date 21-Apr-2009

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name Deltamost SC

Company Hockley International Ltd
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Poynton
Stockport
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mail@hockley.co.uk
www.hockley.co.uk

Telephone 01625 878590

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Emergency telephone number 01625 878590 (9am - 5pm GMT)

Product code DELTAM0010SCA

2 HAZARDS IDENTIFICATION.

Main hazards 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
Deltamethrin	1%	52918-63-5	258-256-6	T; R23/25 N; R50/53
Distilled Water	88.85%	7732-18-5	231-791-2	
1,2 Ethanediol (Ethane-1,2-diol vapour)	3.5%	107-21-1	203-473-3	Xn; R22
Polyaryphenyl Ether (Amine Salt)	1.02	105362-40-1		
Suspending agent (Titanium dioxide respirable)	3.5%	13463-67-7	236-675-5	
Suspending Agent 200	1.5%	112945-52-5		Xi; R36/37/38
Xanthan Gum	0.44%	11138-66-2	234-394-2	
Anti-foamer	0.1%	63148-62-9		
Citronella oil	0.05%	8000-29-1		Xi; R37/38-41-43
Proxel GLX	0.04%	2634-33-5	220-120-9	Xn; R22 Xi; R38-41 R43 N; R50

Print date 21-Apr-2009

Deltamost SC

Revision 1
Revision date 21-Apr-2009

4. FIRST AID MEASURES

Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Inhalation	Move the exposed person to fresh air. Seek medical attention.
Ingestion	Immediate medical attention is required. DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water.
General information	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5. FIRE FIGHTING MEASURES

Extinguishing media	Carbon dioxide (CO ₂) Dry chemical. Foam. Water. Do NOT use water jet.
Fire hazards	Burning produces compounds of carbon, nitrogen, and bromine. 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	Wear: Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation of the working area. Wear suitable protective equipment.
Environmental precautions	Do not let product contaminate subsoil. Do not allow product to enter drains. Do not flush into surface water. Prevent further spillage if safe.
Clean up methods	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Do not breathe gas/fumes/vapour/spray.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store at temperatures below 30 °C. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

Deltamost SC

Revision 1
Revision date 21-Apr-2009

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

1,2 Ethanediol (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
1,2 Ethanediol (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
1,2 Ethanediol (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 : -
Suspending agent (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 : -
Suspending agent (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 : -
Suspending agent (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.
Respiratory protection	Suitable half mask respirator with filter P3 (EN 143)
Hand protection	Chemical resistant gloves (PVC)
Eye protection	Face shield. Approved safety goggles.
Protective equipment	Chemical resistant clothing. Rubber boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Colour	White.
Odour	Slight.
pH	6.5 - 7.5
Boiling point	100°C
Flash point	> 100°C
Flammability limits	Not Flammable
Explosive	None
Oxidising	None
Vapour pressure	4 mPa @ 25°C
Relative density	1.05 +/- 0.05 @ 20°C
Water solubility	miscible.
Viscosity	100 cSt @ 20°C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions. Decomposition will start at 100°C.
Conditions to avoid	Direct sunlight. Heat.
Materials to avoid	Acids. Alkali metals. Strong oxidising agents.
Hazardous decomposition products	Burning produces compounds of carbon, nitrogen, and bromine.

Deltamost SC

Revision 1
Revision date 21-Apr-2009

11. TOXICOLOGICAL INFORMATION

Toxicological information

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

Deltamost SC	Dermal Rat LD50 = > 10,000 mg/kg Oral Rat LD50 = > 5,000 mg/kg Inhalation Rat LC50/4 h = > 200 mg/l
Deltamethrin	Dermal Rat LD50 = >2000 mg/ml Oral Rat LD50 = 87 mg/ml Inhalation Rat LC50/4 h = 2.2 mg/l
1,2 Ethanediol	Oral Rat LD50 = 4700 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
Suspending agent	Oral Rat LD50 = >10000 mg/kg
Suspending Agent 200	Oral Rat LD50 = 3160 mg/kg
Anti-foamer	Oral Rat LD50 = >17000 Dermal Rabbit LD50 = >2000
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

Corrosivity

May cause irritation to eyes. May cause irritation to skin.

Sensitization

No sensitization effects reported.

Repeated or prolonged exposure

Prolonged or repeated exposure may cause irritation to skin and mucous membranes. May cause allergic reactions in susceptible people.

Mutagenic effects

No mutagenic effects reported.

Carcinogenic effects

No carcinogenic effects reported.

Reproductive toxicity

None.

Deltamost SC

Revision 1
Revision date 21-Apr-2009

12. ECOLOGICAL INFORMATION

Ecotoxicity	The values for the overall ecotoxicity of the product are calculated using a formula.
Deltamost SC	Algae EC50/72h = 9.1 mg/l Daphnia EC50/48h = 0.00056 mg/l Quail LC50/8 days = > 10,000 mg/kg Fish LC50/96h = 0.00026 mg/l
Deltamethrin	Algae EC50/72h = 9.1 mg/l Daphnia EC50/48h = 0.0035 mg/l Fish LC50/96h = 0.00091 mg/l
1,2 Ethanediol	Daphnia EC50/48h = 41000 mg/l Fish LC50/96h = 10000 mg/l
Polyarylphenyl Ether (Amine Salt)	Daphnia EC50/48h = 0.36 mg/l mg/l Rainbow trout LC50/96h = 1.66 mg/l Quail LC50/8 days = > 10,000 mg/kg Fish LC50/96h = 1.22 mg/l mg/l
Suspending agent	Daphnia EC50/48h = 1000 mg/l Fish LC50/96h = 1000 mg/l
Xanthan Gum	Daphnia EC50/48h = 980 mg/l Fish LC50/96h = 320 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	Immobile in most soils due to strong adsorption.
Degradability	Readily biodegradable. Soil degradation of technical material, DT50 (days): 21 (*)
Bioaccumulation	Potential to bioaccumulate. Bio-concentration factor of technical grade active ingredient: 1400 (*)
Further information	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal methods	Can be incinerated if in compliance with local and national regulations. Can be sent to landfill if in compliance with local and national regulations.
Disposal of packaging	Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

Deltamost SC

Revision 1
Revision date 21-Apr-2009

14. TRANSPORT INFORMATION

ADR/RID

UN 3082
Class 9
Packing group III
Hazard ID 90

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S,
(contains Deltamethrin).

IMDG

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

IATA

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

15. REGULATORY INFORMATION

Symbols N - Dangerous for the environment



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

Safety phrases S23 - Do not breathe gas/fumes/vapour/spray.
S29 - Do not empty into drains.
S42 - During fumigation/spraying wear suitable respiratory equipment.
S51 - Use only in well-ventilated areas.

Deltamost SC

Revision 1
Revision date 21-Apr-2009

16. OTHER INFORMATION

Text of risk phrases in Section 3.

R22 - Harmful if swallowed.
R23/25 - Toxic by inhalation and if swallowed.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R37/38 - Irritating to respiratory system and skin.
R38 - Irritating to skin.
R41 - Risk of serious damage to eyes.
R43 - May cause sensitisation by skin contact.
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:
15 - symbols.
16 - text of risk phrases in Section 2.