



SAFETY DATA SHEET DELTASECT

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name DELTASECT
Product number DELTAM0025SCC

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Biocidal products (e.g. disinfectants, pest control).

1.3. Details of the supplier of the safety data sheet

Supplier Hockley International Ltd
Hockley House
3 Longstone Road
Ashbrook Office Park
Manchester
M22 5LB
TEL: +44 (0) 161 209 7400
FAX: +44 (0) 161 209 7401
sds@hockley.co.uk

Manufacturer Sharda Cropchem Limited
(formerly known as Sharda Worldwide Exports Pvt. Ltd.)
Domnic Holm
29th Road, Bandra (West) Mumbai
400050
India
TEL: + 91 22 6678 2800
FAX: + 91 22 6678 2828

1.4. Emergency telephone number

Emergency telephone +44 (0) 161 209 7400 9am - 5pm GMT

National emergency telephone number UK +44 (0) 1865 407333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC) N; R50/53

2.2. Label elements

DELTASECT**Pictogram****Signal word**

Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.
 EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.

Precautionary statements

P273 Avoid release to the environment.
 P391 Collect spillage.
 P501 Dispose of contents/container in accordance with national regulations.
 P260 Do not breathe vapour/spray.

Supplemental label information

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

1,2-PROPANDIOL			10-30%
CAS number: 57-55-6	EC number: 200-338-0	REACH registration number: 01-2119456809-23-XXXX	
Classification	Classification (67/548/EEC or 1999/45/EC)		
Not Classified	-		
DELTAMETHRIN (ISO)			2.5%
CAS number: 52918-63-5	EC number: 258-256-6	M factor (Acute) = 1000000	M factor (Chronic) = 1000000
Classification	Classification (67/548/EEC or 1999/45/EC)		
Acute Tox. 3 - H301	T;R23/25 N;R50/53		
Acute Tox. 3 - H331			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			
SILICON DIOXIDE			1-5%
CAS number: 7631-86-9	EC number: 231-545-4	REACH registration number: 01-2119379499-19-XXXX	
Classification	Classification (67/548/EEC or 1999/45/EC)		
Not Classified	-		

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1,2-BENZISOTHIAZOL-3(2H)-ONE		<1%
CAS number: 2634-33-5	EC number: 220-120-9	
M factor (Acute) = 1		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn;R22 R43 Xi;R38,R41 N;R50	
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
Aquatic Acute 1 - H400		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Remove affected person from source of contamination. CAUTION! First aid personnel must be aware of own risk during rescue! Place unconscious person on the side in the recovery position and ensure breathing can take place.
Inhalation	Move affected person to fresh air at once. Get medical attention. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Ingestion	Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately. If breathing stops, provide artificial respiration.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Coughing. May cause respiratory system irritation. Risk of pulmonary edema. Headache. Muscle twitching.
Ingestion	Gastrointestinal symptoms, including upset stomach. Tremors, convulsions. Nausea, vomiting. (Further see inhalation).
Skin contact	parasthesia.
Eye contact	Irritation of eyes and mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with foam, carbon dioxide, dry powder or water fog. Larger fires: Alcohol-resistant foam. Water spray, fog or mist.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

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Specific hazards	Contain and collect extinguishing water. Avoid releasing into the environment. Do not discharge into drains or watercourses or onto the ground. Solvent vapours may form explosive mixtures with air.
Hazardous combustion products	Heating may generate the following products: Toxic and corrosive gases or vapours. Vapours/gases/fumes of: Hydrogen bromide (HBr). Hydrogen cyanide (HCN). Oxides of: Carbon. Nitrogen. Sulphur.

5.3. Advice for firefighters

Protective actions during firefighting In case of fire and/or explosion do not breathe fumes

Special protective equipment for firefighters Wear full protective clothing (EN 469). Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Warn everybody of potential hazards and evacuate if necessary. Wear protective gloves (EN 374). Wear approved safety goggles (EN 166). Wear appropriate clothing to prevent any possibility of skin contact. Use respiratory equipment EC EN 141 and 143 (half) or EN 166 (full), with A2P3 cartridge and boots (EC EN 20 345 or EC EN 13 832).

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains or watercourses or onto the ground. Stop leak if possible without risk. DO NOT touch spilled material! In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Dike far ahead of larger spills for later disposal. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. This material and its container must be disposed of as hazardous waste.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Measures to protect the environment: do not allow runoff to get into the sewage system. Do not contaminate surface water or ditches with chemical or used containers. Advice on general occupational hygiene: do not breathe the spray. Avoid skin and eye contact. Do not eat, drink, or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Wash all protective clothing thoroughly after use.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from light. Store away from incompatible materials listed in section 10 of this safety data sheet. Keep out of the reach of children. Protect from moisture.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

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Occupational exposure limits

1,2-PROPANDIOL

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

SILICON DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m³ resp.dust

Long-term exposure limit (8-hour TWA): WEL 6 mg/m³ dust

WEL = Workplace Exposure Limit

1,2-PROPANDIOL (CAS: 57-55-6)

DNEL	<p>Industry - Inhalation; Long term systemic effects: 168 mg/m³</p> <p>Industry - Inhalation; Long term local effects: 10 mg/m³</p> <p>Consumer - Inhalation; Long term systemic effects: 50 mg/m³</p> <p>Consumer - Inhalation; Long term local effects: 10 mg/m³</p>
PNEC	<ul style="list-style-type: none"> - Fresh water; 260 mg/l - Marine water; 26 mg/l - Intermittent release; 183 mg/l - STP; 20000 mg/l - Sediment (Freshwater); 572 mg/kg - Sediment (Marinewater); 57.2 mg/kg - Soil; 50 mg/kg

SILICON DIOXIDE (CAS: 7631-86-9)

DNEL	Industry - Inhalation; Long term systemic effects: 4 mg/m ³
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8.2. Exposure controls

Appropriate engineering controls	Provide adequate ventilation.
Eye/face protection	Wear approved safety goggles (EN 166).
Hand protection	Wear protective gloves (EN 374).
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Particulate filter, type P1.
Thermal hazards	No data available.
Environmental exposure controls	Do not release into the environment. Avoid the spillage or runoff entering drains, sewers or watercourses. In case of entry into waterways, soil or drains, inform the responsible authorities.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	White.

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Odour	Characteristic.
Odour threshold	Not available. Not available.
pH	pH (concentrated solution): 5.2 (1% water dilution)
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.06 g/ml @ °C
Bulk density	Not available.
Solubility(ies)	Not available. Dispersible in water.
Auto-ignition temperature	Not relevant.
Decomposition Temperature	Not available.
Viscosity	Not available.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not known. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 4,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (gases ppm) 28,000.0

ATE inhalation (vapours mg/l) 120.0

ATE inhalation (dusts/mists mg/l) 20.0

Skin corrosion/irritation

Animal data Not irritating. Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Not sensitising. Based on available data the classification criteria are not met.

Toxicological information on ingredients.

DELTAMETHRIN (ISO)

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

Genotoxicity - in vivo Based on available data the classification criteria are not met. :

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

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Aspiration hazard

Aspiration hazard

Based on available data the classification criteria are not met.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Very toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

DELTAMETHRIN (ISO)

Toxicity	Very toxic to aquatic life with long lasting effects.
<u>Acute aquatic toxicity</u>	
LE(C)₅₀	0.0000001 < L(E)C ₅₀ ≤ 0.000001
M factor (Acute)	1000000
Acute toxicity - fish	LC ₅₀ , 96 hours, 96 hours: 4.18 µg/l, Cyprinus carpio (Common carp)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours, 48 hours: 0.02 µg/l, Daphnia magna
Acute toxicity - aquatic plants	EbC ₅₀ , 72 hours, 72 hours: 0.60 mg/l, Pseudokirchneriella subcapitata ErC ₅₀ , =: 9.77 mg/l, Pseudokirchneriella subcapitata
<u>Chronic aquatic toxicity</u>	
M factor (Chronic)	1000000

12.2. Persistence and degradability

Persistence and degradability This product does not contain any substances classified as PBT or vPvB.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility Not known.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

DELTAMETHRIN (ISO)

Results of PBT and vPvB assessment No chemical safety assessment has been carried out.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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Disposal methods Waste is suitable for incineration. Dispose of waste via a licensed waste disposal contractor. Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

SECTION 14: Transport information

General

Environmentally Hazardous Substance Mark NOT required for single packagings and combination packagings containing inner packagings < 5L for liquids, or < 5kg for solids. (ADR special provision 375, IMDG code 2.10.2.7, IATA special provision A197)

Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of the Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.

14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DELTAMETHRIN)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DELTAMETHRIN)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DELTAMETHRIN)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains DELTAMETHRIN)

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
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IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

Not available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not relevant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	EH40/2005 Workplace exposure limits.
EU legislation	Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Health and environmental listings	Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer (as amended). Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants (as amended). None of the ingredients are listed.
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	PBT - Persistent, bioaccumulative and toxic. vPvB - Very persistent and very bioaccumulative
Key literature references and sources for data	The International Union of Pure and Applied Chemistry (IUPAC) pesticide properties database - http://sitem.herts.ac.uk/aeru/iupac/index.htm International Chemical Safety Card. Available from www.inchem.org . Disseminated REACH registration dossier - http://apps.echa.europa.eu/registered/registered-sub.aspx European Chemicals Agency, http://echa.europa.eu/

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Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	11/03/2016
Revision	1
Supersedes date	21/05/2014
SDS number	10448
Risk phrases in full	Not classified. R22 Harmful if swallowed. R23/25 Toxic by inhalation and if swallowed. 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.
Hazard statements in full	H301 Toxic if swallowed. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H331 Toxic if inhaled. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.