



SAFETY DATA SHEET

Deltasect

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1. Product identifier

Product name Deltasect
Product No. DELTAM0025SCC

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

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

3. Details of the supplier of the safety data sheet

Supplier

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

4. Emergency telephone number

+44 (0) 161 209 7400 9am - 5pm GMT
National Emergency Telephone Number
 UK +44 (0) 1865 407333

SECTION 2: HAZARDS IDENTIFICATION

1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

Classification (1999/45/EEC) N;R50/53.

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

2. Label elements

Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE
Label In Accordance With (EC) No. 1272/2008

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Signal Word

Warning

Hazard Statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

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

Supplemental label information

EUH208 Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

1,2-PROPANDIOL	10-30%
CAS-No.: 57-55-6	EC No.: 200-338-0
Registration Number: 01-2119456809-23-XXXX	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.

DELTAMETHRIN (ISO)	2.5%
CAS-No.: 52918-63-5	EC No.: 258-256-6
Classification (EC 1272/2008) Acute Tox. 3 - H301 Acute Tox. 3 - H331 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) T;R23/25 N;R50/53

SILICON DIOXIDE	1-5%
CAS-No.: 7631-86-9	EC No.: 231-545-4
Registration Number: 01-2119379499-19-XXXX	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.

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1,2-BENZISOTHAZOL-3(2H)-		< 1%
ONE CAS-No.: 2634-33-5	EC No.: 220-120-9	
Classification (EC 1272/2008)	Classification (67/548/EEC) Xn;R22	
Acute Tox. 4 - H302	R43	
Skin Irrit. 2 - H315	Xi;R38,R	
Eye Dam. 1 - H318	41	
Skin Sens. 1 - H317	N;R50	
Aquatic Acute 1 - H400		

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

SECTION 4: FIRST AID MEASURES

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 the exposed 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. 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

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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

Inhalation

Coughing. May cause irritation to the respiratory system. 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.

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

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

1. Extinguishing media

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.

2. Special hazards arising from the substance or mixture

Hazardous combustion products

When heated, toxic and corrosive vapours/gases may be formed. Vapours/gases/fumes of: Hydrogen bromide (HBr). Hydrogen cyanide (HCN). Oxides of: Carbon. Nitrogen. Sulphur.

Unusual Fire & Explosion Hazards

Solvent vapours may form explosive mixtures with air.

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Specific hazards

Dike and collect extinguishing water. Avoid releasing to the environment. Do not discharge into drains, water courses or onto the ground.

3. Advice for firefightersSpecial Fire Fighting Procedures

In case of fire and/or explosion do not breathe fumes

Protective equipment for fire-fighters

Wear full protective clothing (EN 469). Self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

1. Personal precautions, protective equipment and emergency procedures

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).

2. Environmental precautions

Avoid discharge into drains, water courses 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.

3. Methods and material for containment and cleaning up

Absorb with sand or other inert absorbent. Dike far ahead of larger spills for later disposal. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. This material and its container must be disposed of as hazardous waste.

4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

1. Precautions for safe handling

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.

2. Conditions for safe storage, including any incompatibilities

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

3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1,2-PROPANDIOL	WEL	150 ppm	10 mg/m3			
SILICON DIOXIDE	WEL		2.4 mg/m3 resp.dust			

WEL = Workplace Exposure Limit.

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

<u>DNEL</u>				
Industry	Inhalation.	Long Term	Systemic Effects	168 mg/m3
Industry	Inhalation.	Long Term	Local Effects	10 mg/m3
Consumer	Inhalation.	Long Term	Systemic Effects	50 mg/m3
Consumer	Inhalation.	Long Term	Local Effects	10 mg/m3
<u>PNEC</u>				
Freshwater	260	mg/l		
Marinewater	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)

<u>DNEL</u>				
Industry	Inhalation.	Long Term	Systemic Effects	4 mg/m3

2. Exposure controlsEngineering measures

Provide adequate ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Use respiratory equipment with particle filter, type P1.

Hand protection

Wear protective gloves (EN 374).

Eye protection

Wear approved safety goggles (EN 166).

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

Thermal hazards

No data available.

Environmental Exposure Controls

Do not release into the environment. Do not allow to enter drains, sewers or watercourses. In case of entry into waterways, soil or drains, inform the responsible authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

1. Information on basic physical and chemical properties

<u>Appearance</u>	Liquid
<u>Colour</u>	White.
<u>Odour</u>	Characteristic.
<u>Solubility</u>	Disperses.

Initial boiling point and boiling range (°C)

Not available.

Melting point (°C)

Not available.

Relative density 1.06 g/ml

Bulk Density

Not available.

Vapour density (air=1)

Not available.

Vapour pressure

Not available.

Evaporation rate

Not available.

pH-Value, Conc. Solution 5.2 (1% water dilution)

Viscosity

Not available.

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Solubility Value (G/100G H₂O@20°C)

Not available.

Decomposition temperature (°C)

Not available.

Odour Threshold, Lower

Not available.

Odour Threshold, Upper

Not available.

Flash point (°C)

Not available.

Auto Ignition Temperature (°C)

Not relevant

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Explosive properties

Not considered to be explosive.

Oxidising properties

Does not meet the criteria for oxidising.

2. Other information

No information required.

SECTION 10: STABILITY AND REACTIVITY

1. Reactivity

There are no known reactivity hazards associated with this product.

2. Chemical stability

Stable under the prescribed storage conditions.

3. Possibility of hazardous reactions

Not known.

Hazardous Polymerisation

Will not polymerise.

4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids. Strong alkalis.

6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD₅₀)

= 5000 mg/kg Rat

Based on available data the classification criteria are not met.

Acute Toxicity (Dermal LD₅₀)

> 2000 mg/kg

Based on available data the classification criteria are not met.

Acute Toxicity (Inhalation LC₅₀)

> 4.96 mg/l Rat 4 hours

Based on available data the classification criteria are not met.

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Skin Corrosion/Irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

Toxicological information on ingredients.

DELTA METHRIN (ISO) (CAS: 52918-63-5)

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:

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.

Aspiration hazard:

Based on available data the classification criteria are not met.

SECTION 12: ECOLOGICAL INFORMATION

1. Toxicity

Very toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

DELTA METHRIN (ISO) (CAS: 52918-63-5)

Very toxic to aquatic life with long lasting effects.

Acute Toxicity - Fish

LC50 96 hours = 4.18 µg/l *Cyprinus carpio* (Common carp)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours = 0.02 µg/l *Daphnia magna*

Acute Toxicity - Aquatic Plants

EbC50 72 hours = 0.60 mg/l *Pseudokirchneriella subcapitata*

ErC50 = 9.77 mg/l *Pseudokirchneriella subcapitata*

2. Persistence and degradability

This product does not contain any PBT or vPvB substances.

3. Bioaccumulative potential

SECTION 14: TRANSPORT INFORMATION

Bioaccumulative potential

No data available on bioaccumulation.

4. Mobility in soil

Mobility:

Not known.

5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.

DELTA METHRIN (ISO) (CAS: 52918-63-5)

No chemical safety assessment has been carried out.

6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods

Waste is suitable for incineration. Contact specialist disposal companies. Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

14.1. UN number

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

14.2. UN proper shipping name

<u>Proper Shipping</u>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<u>Name Proper</u>	(Contains deltamethrin)

14.3. Transport hazard class(es)

<u>ADR/RID/ADN Class</u>	9
<u>ADR Label No.</u>	9
<u>IMDG Class</u>	9
<u>ICAO Class/</u>	9
<u>Division Transport</u>	



14.4 Packing group

<u>ADR/RID/ADN Packing group</u>	III
<u>IMDG Packing group</u>	III
<u>ICAO Packing group</u>	III

14.5 Environmental hazards

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Environmentally Hazardous Substance/Marine Pollutant



6. Special precautions for user

Not applicable.

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

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

National Regulations

Workplace Exposure Limits 2005 (EH40)

Health and Environmental Listings

Regulation EC 2037/2000 on substances that deplete the ozone layer. Regulation EC 850/2004 on persistent organic pollutants. None of the ingredients are listed.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions of use are noted for this product.

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

Information Sources

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>

Revision Comments

This is first issue.

Revision 21/05/2014
Date

Revision 0

Date 21/05/2014

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Risk Phrases In Full

NC	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.

Disclaimer

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.