

Revision Date 19/06/2014

Revision 1

Supersedes date 16/09/2013



SAFETY DATA SHEET DELTAMOST SUPER EC

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

1.1. Product identifier

Product name DELTAMOST SUPER EC
Product No. DELPBO0135ECB

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

1.4. Emergency telephone number

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

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Eye Dam. 1 - H318
Environment	Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

Classification (1999/45/EEC)

Xi;R36. N;R50/53.

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

2.2. Label elements

Contains BENZENE SULPHONIC ACID, 4-C10-14-ALKYL DERIVATIVES, CALCIUM SALTS

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P261	Avoid breathing vapour/spray.

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P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER or doctor/physician.

P403+233

Store in a well-ventilated place. Keep container tightly closed.

P501

Dispose of contents/container in accordance with local regulations.

Supplementary Precautionary Statements

P273

Avoid release to the environment.

P391

Collect spillage.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

2-(2-BUTOXYETHOXY)ETHANOL	60-100%
CAS-No.: 112-34-5	EC No.: 203-961-6
Registration Number: 01-2119475104-44-XXXX	
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36
PIPERONYL BUTOXIDE	11% w/v min.
CAS-No.: 51-03-6	EC No.: 200-076-7
Classification (EC 1272/2008) Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) N;R50/53.
BENZENE SULPHONIC ACID, 4-C10-14-ALKYL DERIVATIVES, CALCIUM SALTS	1-5%
CAS-No.: 90194-26-6	EC No.: 290-635-1
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318	Classification (67/548/EEC) Xi;R38,R41.
DELTAMETHRIN (ISO)	2.5% w/v min.
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
2-ETHYLHEXAN-1-OL	1-5%
CAS-No.: 104-76-7	EC No.: 203-234-3

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Classification (EC 1272/2008) Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335	Classification (67/548/EEC) Xn;R20. Xi;R36/37/38.
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2,6-DI-TERT-BUTYL-P-CRESOL		< 1%
CAS-No.: 128-37-0	EC No.: 204-881-4	Registration Number: 01-2119480433-40-XXXX
Classification (EC 1272/2008) Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) N;R50/53.	

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 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. If breathing stops, provide artificial respiration.

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.

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

Burning sensation. Coughing. Dizziness. Headache. Nausea, vomiting.

Ingestion

Abdominal cramps. Convulsions. Nausea, vomiting. Unconsciousness. (Further see inhalation).

Skin contact

Redness. Burning sensation. Numbness. Tingling. Itching.

Eye contact

Redness. Pain.

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

Treat symptomatically. Treat seizures with benzodiazepines.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media**Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media appropriate for surrounding materials.

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 mixtureHazardous combustion products

Toxic gases/vapours/fumes of: Hydrogen bromide (HBr). Oxides of: Nitrogen. Carbon.

Specific hazards

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

DELTAMOST SUPER EC**5.3. Advice for firefighters**Special Fire Fighting Procedures

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

Protective equipment for fire-fighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Warn everybody of potential hazards and evacuate if necessary.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground. Stop leak if possible without risk.

6.3. 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.

6.4. 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**

Handle and open container with care. Wear protective clothing as described in Section 8 of this safety data sheet. Do not release into the environment. Do not allow to enter drains, sewers or watercourses. Do not eat, drink or smoke when using the product. Wash hands after handling. Remove contaminated clothing. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. 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**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
2-(2-BUTOXYETHOXY)ETHANOL	WEL	10 ppm	67,5 mg/m ³	15 ppm	101,2 mg/m ³	
2,6-DI-TERT-BUTYL-P-CRESOL	WEL		10 mg/m ³			

WEL = Workplace Exposure Limit.

DELTAMOST SUPER EC**2-(2-BUTOXYETHOXY)ETHANOL (CAS: 112-34-5)**

<u>DNEL</u>				
Industry	Inhalation.	Short Term	Local Effects	101.2 mg/m ³
Industry	Dermal	Long Term	Systemic Effects	20 mg/kg bw/day
Industry	Inhalation.	Long Term	Systemic Effects	67.5 mg/m ³
Industry	Inhalation.	Long Term	Local Effects	67.5 mg/m ³
Consumer	Inhalation.	Short Term	Local Effects	50.6 mg/m ³
Consumer	Dermal	Long Term	Systemic Effects	10 mg/kg bw/day
Consumer	Inhalation.	Long Term	Systemic Effects	34 mg/m ³
Consumer	Oral	Long Term	Systemic Effects	1.25 mg/kg bw/day
Consumer	Inhalation.	Long Term	Local Effects	34 mg/m ³

PNEC

Freshwater	1	mg/l
Marinewater	0.1	mg/l
Intermittent release	3.9	mg/l
STP	200	mg/l
Sediment (Freshwater)	4	mg/kg sediment dw
Soil	0.4	mg/kg soil dw
Oral	56	mg/kg food

2,6-DI-TERT-BUTYL-P-CRESOL (CAS: 128-37-0)

<u>DNEL</u>				
Industry	Inhalation.	Short Term	Systemic Effects	2 mg/m ³
Consumer	Oral	Long Term	Systemic Effects	0.3 mg/kg/day

PNEC

Freshwater	0.0041	mg/l
Marinewater	0.0041	mg/l
Sediment (Freshwater)	0.731	mg/kg
Sediment (Marinewater)	0.731	mg/kg
Soil	0.35	mg/kg

PIPERONYL BUTOXIDE (CAS: 51-03-6)

<u>DNEL</u>				
Industry	Dermal	Short Term	Systemic Effects	55.556 mg/kg/day
Industry	Inhalation.	Short Term	Systemic Effects	7.75 mg/m ³
Industry	Dermal	Short Term	Local Effects	444 µg/cm ²
Industry	Inhalation.	Short Term	Local Effects	3.875 mg/m ³
Industry	Dermal	Long Term	Systemic Effects	27.778 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	3.875 mg/m ³
Industry	Dermal	Long Term	Local Effects	444 µg/cm ²
Industry	Inhalation.	Long Term	Local Effects	0.222 mg/m ³

PNEC

Freshwater	0.003	mg/l
Marinewater	0.0003	mg/l
Intermittent release	0.0003	mg/l
STP	10	mg/l
Sediment (Freshwater)	0.0194	mg/kg
Sediment (Marinewater)	0.00194	mg/kg
Soil	0.136	mg/kg
Oral	12.53	mg/kg food

8.2. Exposure controlsEngineering measures

Provide adequate ventilation.

Respiratory equipment

It is recommended to use respiratory equipment with combination filter, type A2/P2. If ventilation is insufficient, suitable respiratory protection must be provided. (EN 140/143)

Hand protection

Wear protective gloves. (EN 374)

Eye protection

Avoid contact with eyes. 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.

Environmental Exposure Controls

Do not release into the environment.

DELTAMOST SUPER EC

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

<u>Appearance</u>	Liquid
<u>Colour</u>	Yellow. to Amber.
<u>Initial boiling point and boiling range (°C)</u>	
Not available.	
<u>Melting point (°C)</u>	
Not available.	
<u>Relative density</u>	ca. 0.978
<u>Vapour density (air=1)</u>	
Not available.	
<u>Vapour pressure</u>	
Not available.	
<u>Evaporation rate</u>	
Not available.	
<u>Viscosity</u>	
Not available.	
<u>Solubility Value (G/100G H₂O@20°C)</u>	
Not available.	
<u>Decomposition temperature (°C)</u>	
Not available.	
<u>Odour Threshold, Lower</u>	
Not available.	
<u>Odour Threshold, Upper</u>	
Not available.	
<u>Flash point (°C)</u>	> 62°C ISO 3679
<u>Auto Ignition Temperature (°C)</u>	
Not available.	
<u>Flammability Limit - Lower(%)</u>	
Not available.	
<u>Flammability Limit - Upper(%)</u>	
Not available.	
<u>Partition Coefficient (N-Octanol/Water)</u>	
Not available.	
<u>Explosive properties</u>	
Not applicable.	
<u>Oxidising properties</u>	
Not applicable.	

9.2. Other information

Not available.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

None known.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid exposure to high temperatures or direct sunlight.

DELTAMOST SUPER EC

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

Classification based on Regulation (EC) No 1272/2008.

Acute toxicity:

Acute Toxicity (Oral LD50)

Calculation method.

Based on available data the classification criteria are not met.

Acute Toxicity (Dermal LD50)

Calculation method.

Based on available data the classification criteria are not met.

Acute Toxicity (Inhalation LC50)

Calculation method.

Based on available data the classification criteria are not met.

Skin Corrosion/Irritation:

Calculation method. Based on available data the classification criteria are not met.

Serious eye damage/irritation:

Calculation method. Causes serious eye damage.

Respiratory or skin sensitisation:

Respiratory sensitisation

Not available.

Skin sensitisation

Calculation method.

Based on available data the classification criteria are not met.

Germ cell mutagenicity:

Genotoxicity - In Vitro

Calculation method.

Genotoxicity - In Vivo

Calculation method.

Based on available data the classification criteria are not met.

Carcinogenicity:

Calculation method. Based on available data the classification criteria are not met.

Reproductive Toxicity:

Reproductive Toxicity - Fertility

Calculation method.

Reproductive Toxicity - Development

Calculation method.

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure:

STOT - Single exposure

Not available.

Specific target organ toxicity - repeated exposure:

DELTAMOST SUPER EC

STOT - Repeated exposure

Calculation method.

Based on available data the classification criteria are not met.

Aspiration hazard:

Calculation method. Based on available data the classification criteria are not met.

Toxicological information on ingredients.

DELTAMETHRIN (ISO) (CAS: 52918-63-5)

Acute toxicity:

Acute Toxicity (Oral LD50)

87 mg/kg Rat

Toxic if swallowed.

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

Based on available data the classification criteria are not met.

Acute Toxicity (Inhalation LC50)

0.6 mg/l (dust/mist) Rat 6 hours

Toxic if inhaled.

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:

Skin sensitisation

Buehler test:

Not sensitising.

Based on available data the classification criteria are not met.

Germ cell mutagenicity:

Non-genotoxic.

Based on available data the classification criteria are not met.

Carcinogenicity:

This substance has no evidence of carcinogenic properties.

Based on available data the classification criteria are not met.

Reproductive Toxicity:

No reproductive or developmental effects occurred at non-parentally toxic doses.

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure:

No data available.

Specific target organ toxicity - repeated exposure:

Based on available data the classification criteria are not met.

Aspiration hazard:

Based on available data the classification criteria are not met.

DELTAMOST SUPER EC
2,6-DI-TERT-BUTYL-P-CRESOL (CAS: 128-37-0)

Acute toxicity:

Acute Toxicity (Oral LD50)

2930 mg/kg Rat

REACH dossier information

Based on available data the classification criteria are not met.

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rat

REACH dossier information

Based on available data the classification criteria are not met.

Acute Toxicity (Inhalation LC50)

Data lacking.

Skin Corrosion/Irritation:

Dose

24 hr Rabbit

Erythema/eschar score

Very slight erythema -barely perceptible (1).

Oedema score

Very slight oedema -barely perceptible (1).

REACH dossier information

Not irritating.

Serious eye damage/irritation:

Not Irritating.

Respiratory or skin sensitisation:

Skin sensitisation

Patch Test: Human

REACH dossier information

Not Sensitising.

Germ cell mutagenicity:

Genotoxicity - In Vitro

Chromosome aberration:

REACH dossier information

Negative.

Based on available data the classification criteria are not met.

Genotoxicity - In Vivo

Chromosome aberration:

REACH dossier information

Negative.

Based on available data the classification criteria are not met.

Carcinogenicity:

This substance has no evidence of carcinogenic properties.

Reproductive Toxicity:

Reproductive Toxicity - Fertility

Two-generation study: NOAEL 500 mg/kg Oral Rat

REACH dossier information

Based on available data the classification criteria are not met.

Reproductive Toxicity - Development

Developmental toxicity: NOAEL 100 mg/kg Oral Rat

REACH dossier information

Based on available data the classification criteria are not met.

DELTAMOST SUPER EC

Specific target organ toxicity - single exposure:

Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

NOAEL 25 mg/kg bw/day Oral Rat

REACH dossier information

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard:

Based on available data the classification criteria are not met.

DELTAMOST SUPER EC
PIPERONYL BUTOXIDE (CAS: 51-03-6)

Acute toxicity:

Acute Toxicity (Oral LD50)

5360 mg/kg Rat

REACH dossier information

Based on available data the classification criteria are not met.

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rabbit

REACH dossier information

Based on available data the classification criteria are not met.

Acute Toxicity (Inhalation LC50)

> 5.9 mg/l (dust/mist) Rat 4 hours

REACH dossier information

Based on available data the classification criteria are not met.

Skin Corrosion/Irritation:

Erythema/Eschar score

No erythema (0).

Oedema score

No oedema (0).

REACH dossier information

Based on available data the classification criteria are not met.

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

Respiratory sensitisation

Data lacking.

Skin sensitisation

Buehler test: Guinea Pig

REACH dossier information

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

Germ cell mutagenicity:

Genotoxicity - In Vitro

Chromosome aberration:

REACH dossier information

Negative.

Based on available data the classification criteria are not met.

Genotoxicity - In Vivo

Chromosome aberration:

REACH dossier information

Negative.

Based on available data the classification criteria are not met.

Carcinogenicity:

Carcinogenicity

NOAEL 30 mg/kg/day Oral Rat

REACH dossier information

Based on available data the classification criteria are not met.

Reproductive Toxicity:

Reproductive Toxicity - Fertility

Two-generation study: NOAEL 1000 ppm Oral Rat P

REACH dossier information

DELTAMOST SUPER EC

Based on available data the classification criteria are not met.

Reproductive Toxicity - Development

Maternal toxicity: NOAEL 200 mg/kg/day Oral Rat

REACH dossier information

No reproductive or developmental effects occurred at non-parentally toxic doses. Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure:

STOT - Single exposure

Data lacking.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

NOAEL 15.5 mg/kg Oral

REACH dossier information

Based on available data the classification criteria are not met.

Aspiration hazard:

Not relevant, due to the form of the product.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Classification based on Regulation (EC) No 1272/2008. Very toxic to aquatic life with long lasting effects.

DELTAMOST SUPER EC

Ecological information on ingredients.

DELTAMETHRIN (ISO) (CAS: 52918-63-5)

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

Acute Toxicity - Fish

LC50 96 hours = 0.26 µg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates

LC50 96 hours = 0.0003 µg/l Gammarus fasciatus

Acute Toxicity - Aquatic Plants

ErC50 96 hours > 0.47 mg/l Chlorella vulgaris

Chronic Toxicity - Fish Early life Stage

NOEC 260 days = 0.017 µg/l Pimephales promelas (Fat-head Minnow)

Chronic Toxicity - Aquatic Invertebrates

NOEC 28 days = 0.0035 µg/l Chironomus riparius

NOEC 21 days = 0.0041 µg/l Daphnia magna

Acute Toxicity - Terrestrial

LD50 > 2250 mg/kg Colinus Virginianus (Bobwhite Quail)

2,6-DI-TERT-BUTYL-P-CRESOL (CAS: 128-37-0)

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

Acute Toxicity - Fish

LC0 96 hours 0.57 mg/l Brachydanio rerio (Zebra Fish)

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 0.61 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

EC50 72 hours > 0.4 mg/l Scenedesmus subspicatus

REACH dossier information

PIPERONYL BUTOXIDE (CAS: 51-03-6)

Acute Toxicity - Fish

LC50 96 hours = 3.94 mg/l

REACH dossier information

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours = 0.51 mg/l Daphnia magna

REACH dossier information

Acute Toxicity - Aquatic Plants

ErC50 72 hours = 3.89 mg/l Selenastrum capricornutum

REACH dossier information

Chronic Toxicity - Fish Early life Stage

NOEC 35 days = 0.18 mg/l Pimephales promelas (Fat-head Minnow)

REACH dossier information

Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days = 0.03 mg/l

REACH dossier information

12.2. Persistence and degradability

DELTAMOST SUPER EC

Ecological information on ingredients.

Degradability

The product is not readily biodegradable.

Phototransformation

Water DT50 > 48 days

Biodegradation

Water and Sediment DT50 79 days

Soil DT50 17 days

DELTAMETHRIN (ISO) (CAS: 52918-63-5)

Phototransformation

Air. DT50 ~ 7 hours

REACH dossier information

Stability (Hydrolysis)

Half-life: < 8 days @ 20°C

REACH dossier information

Biodegradation

Water Degradation (4.5%) 28 days

REACH dossier information

No biodegradation observed under test conditions.

2,6-DI-TERT-BUTYL-P-CRESOL (CAS: 128-37-0)

PIPERONYL BUTOXIDE (CAS: 51-03-6)

Degradability

The product is not readily biodegradable.

Phototransformation

Air. Degradation (50%) = 3.6 hours

REACH dossier information

Water DT50 = 8.4 hours

REACH dossier information

Stability (Hydrolysis)

pH7 Half-life: > 500 days @ 25°C

REACH dossier information

12.3. Bioaccumulative potential

Partition coefficient

Not available.

Ecological information on ingredients.

Bioaccumulation factor

BCF = 1400

Partition coefficient

log Kow = 4.6

DELTAMETHRIN (ISO) (CAS: 52918-63-5)

2,6-DI-TERT-BUTYL-P-CRESOL (CAS: 128-37-0)

Bioaccumulation factor

BCF > 330 - 1800 Cyprinus carpio (Common carp)

REACH dossier information

PIPERONYL BUTOXIDE (CAS: 51-03-6)

Bioaccumulation factor

BCF = 380 Lepomis macrochirus (Bluegill)

REACH dossier information

Partition coefficient

log Pow = 4.8

REACH dossier information

12.4. Mobility in soil

DELTAMOST SUPER EC

Ecological information on ingredients.

DELTAMETHRIN (ISO) (CAS: 52918-63-5)

Mobility:

Not considered mobile.

Adsorption/Desorption Coefficient

Soil Koc = 408205

Henry's Law Constant

0.001252 Pa m³/mol 25°C

2,6-DI-TERT-BUTYL-P-CRESOL (CAS: 128-37-0)

Mobility:

The product is partly soluble in water. May spread in the aquatic environment.

Adsorption/Desorption Coefficient

Soil Koc 8183

REACH dossier information

Henry's Law Constant

0.342 Pa m³/mol @ 25°C

REACH dossier information

PIPERONYL BUTOXIDE (CAS: 51-03-6)

Mobility:

Semi-mobile.

Adsorption/Desorption Coefficient

Soil Koc = 830

REACH dossier information

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.

DELTAMETHRIN (ISO) (CAS: 52918-63-5)

Not Classified as PBT/vPvB by current EU criteria.

2,6-DI-TERT-BUTYL-P-CRESOL (CAS: 128-37-0)

Not Classified as PBT/vPvB by current EU criteria.

PIPERONYL BUTOXIDE (CAS: 51-03-6)

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

None known.

Ecological information on ingredients.

PIPERONYL BUTOXIDE (CAS: 51-03-6)

Not available.

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.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

DELTAMOST SUPER EC

14.2. UN proper shipping name

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name (contains deltamethrin, piperonyl butoxide)

14.3. Transport hazard class(es)

ADR/RID/ADN Class 9
ADR/RID/ADN Class Class 9: Miscellaneous dangerous substances and articles.
IMDG Class 9
ICAO Class/Division 9
Transport Labels



14.4. Packing group

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

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



14.6. Special precautions for user

Not applicable.

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

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. 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 Substance Directive 67/548/EEC. 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.

Health and Environmental Listings

Regulation EC 2037/2000 on substances that deplete the ozone layer. Regulation EC 689/2008 concerning the export and import of dangerous chemicals. None of the ingredients are listed.

DELTAMOST SUPER EC

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.

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 EN - European standard adopted by the European Committee for Standardisation.

Information Sources

International Chemical Safety Card. The International Union of Pure and Applied Chemistry (IUPAC) pesticide properties database - <http://sitem.herts.ac.uk/aeru/iupac/index.htm> International Program on Chemical Safety (IPCS) Health and Safety Guide. World Health Organisation (WHO)/Food and Agriculture Organisation of the United Nations (FAO) Pesticide Data Sheet. Available from www.inchem.org. Directive 98/8/EC concerning the placing biocidal products on the market. Inclusion of active substances in Annex I or IA to Directive 98/8/EC. Assessment report. Review report for active substances by the Directorate General for Health and Consumer Affairs (DG SANCO) - http://ec.europa.eu/sanco_pesticides/public/index.cfm?event=activesubstance.selection Disseminated REACH registration dossier - <http://apps.echa.europa.eu/registered/registered-sub.aspx> Supplier safety data sheet (SDS).

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Revision 1

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Risk Phrases In Full

R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R23/25	Toxic by inhalation and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H331	Toxic if inhaled.
H301	Toxic if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.