

Revision Date 08/06/2012

Revision 6



SAFETY DATA SHEET ALPHAMOST SC

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

1.1. Product identifier

Product name ALPHAMOST SC
Product No. ALPHAC0100SCC

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 (1999/45/EEC) Xn;R22. N;R50/53.

2.2. Label elements

Contains α -CYPERMETHRIN

Labelling



Harmful



Dangerous for the environment

Risk Phrases

R22	Harmful 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.
S13	Keep away from food, drink and animal feeding stuffs.
S23	Do not breathe vapour/spray.
S42	During fumigation/spraying wear suitable respiratory equipment.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.
P18	To avoid risks to man and the environment comply with the instructions for use.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

ALPHAMOST SC

3.2. Mixtures

1,2-PROPANDIOL		5-10%
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.	
α -CYPERMETHRIN		10% w/v min
CAS-No.: 67375-30-8	EC No.: 257-842-9	
Classification (EC 1272/2008) Acute Tox. 3 - H301 STOT SE 3 - H335 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) T;R25. Xn;R48/22. Xi;R37. N;R50/53.	
TITANIUM DIOXIDE		< 5%
CAS-No.: 13463-67-7	EC No.: 236-675-5	Registration Number: 01-2119489379-17-XXXX
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	
SILICON DIOXIDE		< 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.	

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

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 delayed

Inhalation.

Coughing. Difficulty in breathing.

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Ingestion

Severe abdominal pain. Nausea, vomiting.

Skin contact

Itching. Redness.

Eye contact

Pain. Redness. Profuse watering of the eyes.

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

Treat symptomatically. Atropine for muscarinic manifestations (e.g. salivation, diarrhea). 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 mixture

Hazardous combustion products

When heated, toxic and corrosive vapours/gases may be formed. Hydrogen chloride (HCl). Hydrogen cyanide (HCN). Carbon monoxide (CO).

Specific hazards

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

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

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

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 the 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

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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			
SILICON DIOXIDE	WEL		6 mg/m3 total dust			
TITANIUM DIOXIDE	WEL		4 mg/m3			

WEL = Workplace Exposure Limit.

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

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

PNEC

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)DNEL

Industry	Inhalation.	Long Term	Systemic Effects	4 mg/m3
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TITANIUM DIOXIDE (CAS: 13463-67-7)DNEL

Industry	Inhalation.	Long Term	Systemic Effects	10 mg/m3
Consumer	Oral	Long Term	Systemic Effects	700 mg/kg/day

PNEC

Freshwater	0.127	mg/l
Marinewater	1	mg/l
Intermittent release	0.61	mg/l
STP	100	mg/l
Sediment (Freshwater)	1000	mg/kg
Sediment (Marinewater)	100	mg/kg
Soil	100	mg/kg

8.2. 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 P2. (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.

Thermal hazards

No data available.

Environmental Exposure Controls

Do not release into the environment.

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

Liquid Suspension.

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<u>Colour</u>	White / off-white.
<u>Odour</u>	Characteristic.
<u>Solubility</u>	Disperses.
<u>Initial boiling point and boiling range</u>	Not available.
<u>Melting point (°C)</u>	Not available.
<u>Relative density</u>	1.04 @ 20°C
<u>Vapour density (air=1)</u>	Not available.
<u>Vapour pressure</u>	Not available.
<u>Evaporation rate</u>	Not available.
<u>pH-Value, Conc. Solution</u>	7 - 9
<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</u>	Not relevant
<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 relevant
<u>Explosive properties</u>	Not available.
<u>Oxidising properties</u>	Not available.
<u>9.2. Other information</u>	Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

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.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids. Strong alkalis.

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10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Acute Toxicity (Oral LD50)

Calculation method.

Harmful if swallowed.

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

Respiratory or skin sensitisation:

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:

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

Calculation method.

Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure:

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.

ALPHAMOST SC
α-CYPERMETHRIN (CAS: 67375-30-8)

Acute toxicity:

Acute Toxicity (Oral LD50)

57 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)

> 0.593 mg/l (dust/mist) Rat 4 hours

Based on available data the classification criteria are not met.

Skin Corrosion/Irritation:

Based on available data the classification criteria are not met.

Serious eye damage/irritation:

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation:

Skin sensitisation

Guinea pig maximization test (GPMT): Guinea Pig

Negative.

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:

Reproductive Toxicity - Fertility

NOAEL > 20 mg/kg

Reproductive Toxicity - Development

NOAEL 9 mg/kg Oral

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

NOAEL 4 mg/kg Oral

Target Organs

Central nervous system

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

NOAEL 1.5 mg/kg/day Oral Dog

Target Organs

Central nervous system

May cause damage to organs through prolonged or repeated exposure if swallowed.

Aspiration hazard:

Based on available data the classification criteria are not met.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Classification according to Directive 1999/45/EC. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Ecological information on ingredients.

α -CYPERMETHRIN (CAS: 67375-30-8)

Acute Toxicity - Fish

LC50 96 hours = 0.0028 mg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours = 0.0003 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 96 hours > 0.1 mg/l Selenastrum capricornutum

Chronic Toxicity - Fish Early life Stage

NOEC 34 days = 0.00003 mg/l Pimephales promelas (Fat-head Minnow)

Chronic Toxicity - Aquatic Invertebrates

NOEC 21 days = 0.00003 mg/l Daphnia magna

Acute Toxicity - Terrestrial

LD50 = 0.059 μ g as/bee

(Oral exposure).

LD50 = 0.033 μ g as/bee Apis Mellifera (Honeybee)

(Topical exposure).

12.2. Persistence and degradability

Ecological information on ingredients.

α -CYPERMETHRIN (CAS: 67375-30-8)

Degradability

The product is not readily biodegradable.

Biodegradation

Water and Sediment DT50 = 21 days

Soil DT50 = 35 days

12.3. Bioaccumulative potential

Partition coefficient

Not relevant

Ecological information on ingredients.

α -CYPERMETHRIN (CAS: 67375-30-8)

Bioaccumulation factor

BCF = 1204

(test data for active ingredient Cypermethrin) (read-across approach)

Partition coefficient

log Pow = 5.5

12.4. Mobility in soil

Ecological information on ingredients.

α -CYPERMETHRIN (CAS: 67375-30-8)

Mobility:

Not considered mobile.

Adsorption/Desorption Coefficient

Soil Koc = 57889

Henry's Law Constant

0.069 Pa m³/mol @ 20°C

12.5. Results of PBT and vPvB assessment

No chemical safety assessment has been carried out.

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Ecological information on ingredients. α -CYPERMETHRIN (CAS: 67375-30-8)

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

The product contains a substance which is toxic to bees.

Ecological information on ingredients. α -CYPERMETHRIN (CAS: 67375-30-8)

Not known.

SECTION 13: DISPOSAL CONSIDERATIONSGeneral 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**

<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 Name</u>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<u>Proper Shipping Name</u>	(contains alpha-Cypermethrin)

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/Division</u>	9
<u>Transport Labels</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 hazardsEnvironmentally Hazardous Substance/Marine Pollutant

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**14.6. Special precautions for user**

<u>EMS</u>	F-A, S-F
<u>Emergency Action Code</u>	•3Z
<u>Hazard No. (ADR)</u>	90
<u>Tunnel Restriction Code</u>	(E)

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 mixtureUk 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.

National Regulations

HSE approval no. 7272 This safety data sheet does not form part of the label approved under the Control of Pesticide Regulations 1986. Following the instructions on the pesticide product label for the specified uses should ensure that the product is used safely and efficaciously for those uses.

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.

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

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. International Programme on Chemical Safety (IPCS) Environmental Health Criteria. United Kingdom National Poisons Information Service Document. Available from www.inchem.org. 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 World Health Organisation (WHO) Specifications and Evaluations for Public Health Pesticides - Evaluation Report. Disseminated REACH registration dossier - <http://apps.echa.europa.eu/registered/registered-sub.aspx> Supplier safety data sheet (SDS).

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Risk Phrases In Full

R22	Harmful if swallowed.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R37	Irritating to respiratory system.
NC	Not classified.
R25	Toxic if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H302	Harmful if swallowed.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H335	May cause respiratory irritation.
H301	Toxic if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

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.