Revision Date 17/06/2014 Revision 7

Revision 7

Supersedes date 07/06/2012

SAFETY DATA SHEET
ALPHAMOST PLUS

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

1.1. Product identifier

Product name	ALPHAMOST PLUS
Product No.	ACYZTR0100SCA

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)

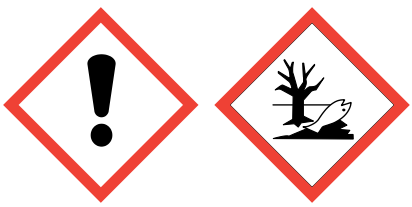
	Physical and Chemical Hazards	Not classified.
	Human health	Acute Tox. 4 - H302
	Environment	Aquatic Acute 1 - H400;Aquatic Chronic 1 - H410
Classification (1999/45/EEC)	Xn;R22. N;R50/53.	

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

2.2. Label elements

Contains	α-CYPERMETHRIN

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



Signal Word	Warning	
Hazard Statements		
	H302	Harmful if swallowed.
	H410	Very toxic to aquatic life with long lasting effects.
Precautionary Statements		
	P270	Do not eat, drink or smoke when using this product.
	P273	Avoid release to the environment.
	P264	Wash contaminated skin thoroughly after handling.

P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P501	Dispose of contents/container in accordance with local regulations.

Supplementary Precautionary Statements

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

α-CYPERMETHRIN — 100 g/l min

CAS-No.: 67375-30-8 — EC No.: 257-842-9

Classification (EC 1272/2008)	Classification (67/548/EEC)
Acute Tox. 3 - H301	T;R25.
STOT SE 3 - H335	Xn;R48/22.
STOT RE 2 - H373	Xi;R37.
Aquatic Acute 1 - H400	N;R50/53.
Aquatic Chronic 1 - H410	

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)	Classification (67/548/EEC)
Not classified.	Not classified.

TITANIUM DIOXIDE — 1-5%

CAS-No.: 13463-67-7 — EC No.: 236-675-5 — Registration Number: 01-2119489379-17-XXXX

Classification (EC 1272/2008)	Classification (67/548/EEC)
Not classified.	Not classified.

SILICON DIOXIDE — 1-5%

CAS-No.: 7631-86-9 — EC No.: 231-545-4 — Registration Number: 01-2119379499-19-XXXX

Classification (EC 1272/2008)	Classification (67/548/EEC)
Not classified.	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.

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

Toxic gases/vapours/fumes of: Hydrogen chloride (HCl). 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.

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

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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

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		10 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

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		

α-CYPERMETHRIN (CAS: 67375-30-8)

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Engineering 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
Colour	White / off-white.
Odour	Slight odour.
Solubility	Disperses.

Initial boiling point and boiling range (°C)

Not available.

Melting point (°C)

Not available.

Relative density	1.03 - 1.05

Bulk Density

Not applicable.

Vapour density (air=1)

Not available.

Vapour pressure

Not available.

Evaporation rate

Not available.

pH-Value, Conc. Solution	5 - 7

Viscosity

Not available.

Decomposition temperature (°C)

Not available.

Odour Threshold, Lower

Not available.

Odour Threshold, Upper

Not available.

Flash point (°C)	>100 °C ISO 3679

Auto Ignition Temperature (°C)

Not available.

Flammability Limit - Lower(%)

Not available.

Flammability Limit - Upper(%)

Not available.

Partition Coefficient (N-Octanol/Water)

Not relevant

Explosive properties

Not available.

Oxidising properties

Not available.

9.2. Other information

No information required.

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.

10.6. Hazardous decomposition products

None under normal conditions.

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

Germ cell mutagenicity:
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:
Calculation method.

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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.

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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.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

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 µg as/bee
(Oral exposure).
LD50 = 0.033 µg 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

Bioaccumulative potential

The product contains potentially bioaccumulating substances.

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

This product does not contain any PBT or vPvB substances.

Ecological information on ingredients.

α-CYPERMETHRIN (CAS: 67375-30-8)

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not known.

Ecological information on ingredients.

α-CYPERMETHRIN (CAS: 67375-30-8)

Not 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.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

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

14.2. UN proper shipping name

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name	(contains α-Cypermethrin)

14.3. Transport hazard class(es)

ADR/RID/ADN Class	9
ADR Label No.	9
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.

National Regulations

HSE approval no. 8166. 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 specificed 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

United Kingdom National Poisons Information Service Document. The International Union of Pure and Applied Chemistry (IUPAC) pesticide properties database - http://sitem.herts.ac.uk/aeru/iupac/index.htm International Programme on Chemical Safety (IPCS) Environmental Health Criteria. 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 Disseminated REACH registration dossier - http://apps.echa.europa.eu/registered/registered-sub.aspx United States National Library of Medicine Hazardous Substances Data Bank (HSDB) - http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB

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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.