

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Product Identifier: **SUMMERCLOUD GREENHOUSE CLEANER**
1.2 Relevant uses of the substance or mixture and uses advised against:
 Surface cleaner
1.3 Manufacturer/Distributor: Vitax Ltd, Owen Street, Coalville, LE67 3DE UK
 Tel: +44(0) 1530 510060 Fax: +44(0) 1530 510299 Email: info@vitax.co.uk
1.4 Emergency Contact: Tel: +44(0) 1530 510060

2. HAZARDS IDENTIFICATION

2.1 Classification: **Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)**
Physical hazards none
Health hazards none
Environmental hazards none
2.2 Label Elements: none
 Signal word: none
 Hazard statements: none
 Precautionary Statements none
2.3 Other Hazards: none.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation Type: Soluble liquid:
Hazardous Ingredients:

INGREDIENT	% w/w	CLASSIFICATION	CAS No	EC No
Benzalkonium Chloride	<1.00%	Danger – Ac. Tox. 4: H302, H312; Eye Dam. 1: H318; Skin Corr. 1B: H314 Aq Ac. 1: H400	68424-85-1	270-325-2
Alcohols, C9-11, ethoxylated	<1.00%	Danger –Ac. Tox. 4: H302; Eye Dam. 1: H318;	68439-46-3	-

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information If medical advice is needed, have product container or label at hand.
Inhalation Remove victim immediately from source of exposure. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.
Ingestion Rinse mouth thoroughly. Drink plenty of water. Get medical attention if any discomfort continues.
Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if any discomfort continues.

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

Not available

4.3 Indication of immediate medical attention and special treatment needed:

Not available.

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products None under normal conditions.

Unusual Fire & Explosion Hazards Not known.

5.3. Advice for firefighters

Special Fire Fighting Procedures Avoid breathing fire vapours.

Protective equipment for fire-fighters Self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

See Section 8 of this safety data sheet. Wash hands and exposed skin after handling.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses.

6.3. Methods and material for containment and cleaning up

Soak up spillage with absorbent material such as sand, transfer to suitable marked container and keep safe before disposal in accordance with local authority requirements.

6.4. Reference to other sections

None

7. HANDLING & STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material.

7.3. Specific end use(s)

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

Usage Description

Surface cleaner.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters:

No occupational exposure limit assigned.

8.2 Exposure Controls:

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Respiratory Protection:

For most conditions, no respiratory protection should be needed. However, when airborne exposure guidelines and/or comfort levels may be exceeded use an approved air-purifying respirator. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.

Hand/Skin Protection:

For brief contact, no precautions other than clean body-covering clothing and impervious gloves should be needed. When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material.

Eye/Face Protection:

Use chemical goggles. Normal good hygiene standards should be observed.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	Clear, colourless liquid
Odour	faint citrus
pH	Neutral
Boiling point	ca. 100°C
Flammability	non flammable
Relative density	1.01
Solubility	Soluble
Other data	none

9.2 Other information:

None.

10. STABILITY & REACTIVITY

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not known.

Hazardous Polymerisation

Will not polymerise.

10.4. Conditions to avoid

Avoid high temperatures

10.5. Incompatible materials

Materials To Avoid

Oxidizing agents, strong acids and bases.

10.6. Hazardous decomposition products

Combustion or thermal decomposition will evolve carbon oxides.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information

Benzalkonium chloride: LD50 Oral Rat 240-400 mg/kg. LD50 rat (dermal) 800-1420 mg/kg.

Inhalation

Non-sensitising. Not considered to be CMR.

Not a primary route of exposure. Inhalation of spray mist may irritate respiratory system.

Ingestion

May cause irritation to mouth, throat and trachea.

Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.

12. ECOLOGICAL INFORMATION	
12.1 Ecotoxicity	
benzalkonium chloride	Very toxic to aquatic life. LC50 96hr rainbow trout 0.085mg/l EC50/48hrDaphnia 0.02 mg/l EC50/96hr Algae 0.06 mg/l
12.2. Persistence and degradability	Readily biodegradable
12.3. Bioaccumulative potential	Bioaccumulation not considered likely.
12.4. Mobility in soil	The product is water based and may be mobile in the aquatic environment. The quaternary ammonium component readily binds to organic matter/sediment.
12.5. Results of PBT and vPvB assessment	not applicable
12.6. Other adverse effects	No data.

13. DISPOSAL CONSIDERATIONS	
13.1. Waste treatment methods	Do not contaminate surface water or drains with chemicals or used container. Product and its container can be disposed of at a suitable local authority waste site. Do not re-use empty containers. Empty containers can be disposed of in normal domestic waste.

14. TRANSPORT INFORMATION	
General	Not classified as dangerous for transport

15. REGULATORY INFORMATION	
15.1 Safety, health and environmental regulations/legislation specific to this substance:	EU legislation 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).
15.2 Chemical Safety Assessment	not undertaken for this material

16. OTHER INFORMATION	
Reason for revision:	Replaces version dated Sept 2014. Revised format- all sections updated.
General information	The information contained in this Safety Data Sheet is believed to be true and correct, as of the issue date. The accuracy and completeness of this information and any recommendations, or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use for this product.
Hazard Statements In Full	CLP Regulation (EC) n° 1272/2008: Acute Tox. 4: H302 - Harmful if swallowed H312 – Harmful in contact with skin Eye Dam. 1: H318 - Causes serious eye damage Skin Corr. 1B: H314 - Causes severe skin burns and eye damage Aq. Acute 1: H400 – Very toxic to aquatic life