

# VITAX SAFETY INFORMATION SHEET

Date of Issue: Sept 2015

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

**1.1 Product Identifier:** GREENHOUSE DISINFECTANT

**1.2 Relevant uses of the substance or mixture and uses advised against:**

Biocidal disinfectant

**1.3 Manufacturer/Distributor:** Vitax Limited

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:**

**Physical hazards**

**Health hazards**

**Environmental hazards**

**Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)**

none

H315 Causes skin irritation.

H319 Causes serious eye irritation

Aquatic Acute 1 - H400 Toxic to aquatic life

**2.2 Label Elements:**

Contains 2% benzalkonium chloride (EC 258-067-9),



**Signal word:** Warning

**Hazard statements:** H315 Causes skin irritation.

H319 Causes serious eye irritation

**Precautionary Statements** P280 Wear protective gloves and eye/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical attention.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children

**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

2.0%

C: R34 N: R50 Xn: R21/22 68424-85-1

270-325-2

Danger -Ac. Tox. 4: H302;

Eye Dam. 1: H318;

Skin Corr. 1B: H314

Eye Dam. 1: H318;

Alcohols, C9-11, ethoxylated

<1.00%

C: R22;R41 68439-46-3

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Danger -Ac. Tox. 4: H302;

Eye Dam. 1: H318;

## 4. 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.

# VITAX SAFETY INFORMATION SHEET

Date of Issue: Sept 2015

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<b>Eye contact</b>	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.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Not available
<b>4.3 Indication of immediate medical attention and special treatment needed:</b>	Not available.

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## 5. FIRE FIGHTING MEASURES

<b>5.1. Extinguishing media</b>	
<b>Extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>5.2. Special hazards arising from the substance or mixture</b>	
<b>Hazardous combustion products</b>	None under normal conditions.
<b>Unusual Fire &amp; Explosion Hazards</b>	Not known.
<b>5.3. Advice for firefighters</b>	
<b>Special Fire Fighting Procedures</b>	Avoid breathing fire vapours.
<b>Protective equipment for fire-fighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	See Section 8 of this safety data sheet. Wash hands and exposed skin after handling.
<b>6.2. Environmental precautions</b>	Do not discharge onto the ground or into water courses.
<b>6.3. Methods and material for containment and cleaning up</b>	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.
<b>6.4. Reference to other sections</b>	None

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## 7. HANDLING & STORAGE

<b>7.1. Precautions for safe handling</b>	Avoid contact with skin and eyes.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store in tightly closed original container in a dry, cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material.
<b>Storage Class</b>	Miscellaneous hazardous material storage.
<b>7.3. Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
<b>Usage Description</b>	Surface biocide.

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

<b>8.1 Control parameters:</b>	No occupational exposure limit assigned.
<b>8.2 Exposure Controls:</b>	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.
<b>Respiratory Protection:</b>	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.
<b>Hand/Skin Protection:</b>	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.
<b>Eye/Face Protection:</b>	Use chemical goggles. Normal good hygiene standards should be observed.

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## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>9.1 Information on basic physical and chemical properties:</b>		
	Appearance	Clear, colourless liquid
	Odour	faint citrus
	pH	Neutral

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# VITAX SAFETY INFORMATION SHEET

Date of Issue: Sept 2015

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Boiling point	ca. 100°C
Flammability	non flammable
Relative density	1.01
Solubility	Soluble
Other data	none

**9.2 Other information:** None.

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## 10. STABILITY & REACTIVITY

<b>10.1. Reactivity</b>	Stable under normal conditions.
<b>10.2. Chemical stability</b>	Stable under normal temperature conditions and recommended use.
<b>10.3. Possibility of hazardous reactions</b>	Not known.
<b>Hazardous Polymerisation</b>	Will not polymerise.
<b>10.4. Conditions to avoid</b>	Avoid high temperatures
<b>10.5. Incompatible materials</b>	
<b>Materials To Avoid</b>	Oxidizing agents, strong acids and bases.
<b>10.6. Hazardous decomposition products</b>	Combustion or thermal decomposition will evolve carbon oxides.

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## 11. TOXICOLOGICAL

### 11.1. Information on toxicological effects

#### Toxicological information

Benzalkonium chloride: LD50 Oral Rat 240-400 mg/kg. LD50 rat (dermal) 800-1420 mg/kg.  
Non-sensitising. Not considered to be CMR.

#### Inhalation

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.

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## 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.

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## 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.

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## 14. TRANSPORT INFORMATION

### General

Not classified as dangerous for transport

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## 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific to this substance:

# VITAX SAFETY INFORMATION SHEET

Date of Issue: Sept 2015

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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

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## 16. OTHER INFORMATION

**Reason for revision:**

Risks recalculated to ensure data is up to date. MSDS re-formatted in-line with regulation 453/2010 all sections affected.

**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

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