VF INDUSTRIAL SUPPLIES

HARD SURFACE CLEANER/ DISINFECTANT EFFECTIVE AGAINST ENVELOPED VIRUSES

What is CONTROL Technology[™]?

CONTROL is a high level disinfectant technology platform offering safe, effective, user friendly single step cleaning and disinfection across a wide range of industries. From healthcare to educational establishments, food processing to veterinary science, Sychem CONTROL is a proven technology safe to use in all associated food, animal and human environments.

The CONTROL Technology[™] platform is based around the quaternary ammonium compounds didecyldimethyl ammonium chloride (DDAC) and benzalkonium chloride (BAC) with an adjuvant effect to enhance its antimicrobial efficacy.

How effective is CONTROL Technology[™] against microbes?

Extensive testing at independent, accredited laboratories has demonstrated that CONTROL Technology[™] products offer broad spectrum high level disinfection. See below for details of the antimicrobial efficacy testing that CONTROL Technology[™] products have passed.

| MICROBIAL CLASS | ANTIMICROBIAL EFFICACY TEST* | CONTACT TIME (MINUTES) | LOG REDUCTION |
|---------------------------------------|----------------------------------|---------------------------|---------------|
| BACTERIA (Gram-positive/ | EN 1276 ¹ | 1 | >6 |
| Gram-negative) | AOAC - Bactericidal ² | 10 | >6 |
| VIRUSES (enveloped and non-enveloped) | EN 14476 ³ | 5 | >4 |
| | AOAC - Virucidal ⁴ | 5 | >4 |
| FUNGI (mould and yeast) | EN 1650 ⁵ | 1 | >5 |
| | AOAC - Fungicidal ⁶ | 10 | >6 |
| BACTERIAL SPORES EN | 13704 7 | 60 | >3 |
| MYCOBACTERIA | EN 14348 ⁸ | 1 | >5 |

* All testing was performed using hard water and under dirty conditions in order to present the toughest challenge to the CONTROL Technology[™] platform.

l VorTEC[™] fluid

Based on the CONTROL Technology[™] platform, VorTEC[™] fluid undergoes specific manufacturing processes which optimise its performance when aerosolised through the mains powered VorTEC[™] misting system. VorTEC[™] can disinfect rooms with capacities ranging from 100m³ to 600m³.

All Sychem CONTROL products are fully compliant with all current legislation including the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Directive.



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What makes Sychem **CONTROL** products unique?

In addition to vetry high levels of antimicrobial efficacy Sychem CONTROL products are fragrance free, chlorine free, alcohol free and exhibit the following key qualities when in use:

- non-corrosive
- non-irritant
- non-toxic
- food safe
- safe in use
- cost effective
- · easy to use with excellent levels of user acceptance
- prolonged antimicrobial effect after application
- excellent materials compatibility

How does CONTROL Technology[™] kill micro-organisms?

CONTROL Technology[™] kills micro-organisms by simultaneously attacking multiple microbial structures and components which are all essential to life (see Figure 2). The result is a rapid microbial kill of bacteria, viruses, fungi and spores.

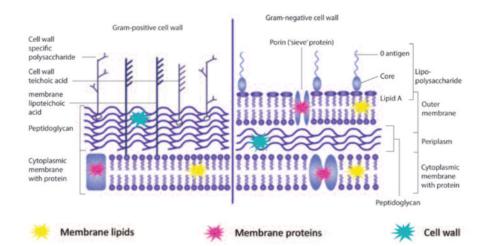
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- Keward J. Disinfectants in health care: finding an alternative to chlorine dioxide. B Nurs. 2013 Sep 12-25; 22(16):926, 928-32. Eastmead L. Adopting a new cleaner disinfector to optimise cleanliness and improve the staff experience. National Infection Prevention Society Conference, London 2013. Poster Presentation

How cost effective is CONTROL **Technology**[™]?

A clinical paper by Keward (2013) in the British Journal of Nursing reported an 84% cost saving when adopting CONTROL Technology[™] products Trust wide at Alder Hay Children's Hospital in place of chlorine dioxide on a like basis ie 1 x litre of Sychem CONTROL vs 1 x litre of chlorine dioxide.9

Figure 2. Schematic diagram highlighting the key bacterial structures affected by CONTROL Technology™



Why, where, when and how should I use Sychem CONTROL?

Why... Improving environmental cleanliness reduces the risk of infection, cross infection, contamination, spoilage etc. whilst also reducing the number of microbes transferred onto people's hands. Sychem CONTROL products have been particularly successful in the very challenging healthcare and biomedical sectors where their use has resulted in cleaner clinical environments when compared to both standard cleaning¹⁰ and chlorine dioxide based cleaning and disinfection protocols.⁹

Where... Sychem CONTROL products are designed for use in situations where there is a clear need to create and maintain the cleanest possible environment whilst reducing the bioburden (i.e. number of microbes present) in order to interrupt key microbial transmission pathways (surfaces and/or air) and reduce the risk of infection, cross infection, contamination, spoilage etc.

When... To get the best results, Sychem CONTROL products should be used frequently (ideally daily) and should be used in place of your standard cleaning and/or disinfection products, becoming an integral part of your normal cleaning processes.

How... Sychem CONTROL products clean and disinfect simultaneously and therefore only require a single stage process to achieve the highest levels of cleanliness. The wipes, sprays and concentrate are very simple to use and will fit seamlessly into your existing cleaning processes with little or no training required. The more specialist misting systems will require basic training (approximately 1 hour) to ensure they are used correctly and deliver the results that you require.



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High Level Disinfectant Cleaner

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Compilation date: 16.02.2016

Revision date: 16.02.2016

Revision No: 1.0

| 1.1. Product Identifier | |
|--|--|
| Product name: | Sychem CONTROL Ready for Use Flip Top Sychem CONTROL Ready for Use Trigger Spray |
| 1.2. Relevant identified uses of the | substance or mixture and uses advised against |
| Uses: | High Level Disinfectant Cleaner |
| 1.3. Details of the supplier of the sa | ifety data sheet |
| Company name: Tel: Contact: Email: | VI Distribution Ltd Unit 7 Springvale Business Centre Millbuck Way Sandbach Cheshire CW11 3HY 01270 750520 Iain Wilson sales@vidistribution.co.uk |
| 1.4. Emergency telephone number | |
| Emergency Tel: | 07855958624 |
| on 2: Hazards Identification | |
| Most important adverse effects: | Not Applicable |
| | Not Applicable |
| 2.2. Label elements | |
| Hazard Statements: | Not Applicable |
| Single word: | Not Applicable |
| | |
| Hazard Pictograms: | Not Applicable |
| Hazard Pictograms: Precautionary phrases: | P264: Wash hands thoroughly after handling |
| <u> </u> | P264: Wash hands thoroughly after handling P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove cont lenses, if present and easy to do. Continue rinsing P302+352: IF ON SKIN: Wash with plenty of water |
| Precautionary phrases: | P264: Wash hands thoroughly after handling P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove cor lenses, if present and easy to do. Continue rinsing P302+352: IF ON SKIN: Wash with plenty of water |

Sychem CONTROL Ready for Use

High Level Disinfectant Cleaner

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Section 3: Composition/Information on Ingredients

3.2. Mixtures

Hazardous ingredients:

DIDECYLDIMETHYLAMMONIUM CHLORIDE

| EINECS | CAS | CHIP Classification | CLP Classification | Percent |
|---------------|---|----------------------------|------------------------------------|----------|
| 230-525-2 | 7173-51-5 | Xn: R22; C: R34 | Acute Tox. 4: H302; Skin Corr. 1B: | <0.05% |
| ALKYL DIMETHY | ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE | | H314 | |
| EINECS | CAS | CHIP Classification | CLP Classification | Percent |
| 270-325-2 | 68424-85-1 | Xn: R21/22; C: R34; N: R50 | Acute Tox. 4: H302; Skin Corr. 1B: | < 0.03 % |
| L | 1 | | H314; Aquatic Acute 1: H400 | 1 |

Section 4: First Aid Measures

4.1. Description of first aid measures

| Skin contact: | There may be mild irritation at the site of contact, wash immediately with plenty of soap and water. If symptoms persist consult doctor |
|-----------------------------|---|
| Eye contact: | There may be irritation and redness, bathe the eye with running water for 15 minutes. If symptoms persist consult doctor |
| Ingestion: | There may be irritation of the throat, wash out mouth with water |
| Inhalation: | No symptoms |
| 4.2. Most important symptom | ms and effects, both acute and delayed |
| Skin contact: | There may be irritation at the site of contact |
| Eye contact: | There may be irritation and redness |

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

No symptoms

Section 5: Fire-Fighting Measures

Ingestion:

Inhalation:

5.1. Extinguishing media

| Extinguishing media: Unsuitable extinguishing agents: Protective equipment: | Suitable extinguishing agents: Water spray jet, extinguishing powder, C02, foam None Wear self-contained breathing apparatus Cool endangered containers with water spray jet |
|---|---|
| 5.2. Special hazards arising from the | substance or mixture |
| Exposure hazards: | No hazardous ingredients |
| 5.3. Advice for fire-fighters | |
| | Wear self-contained breathing apparatus |

There may be irritation of the throat

Wear self-contained breathing apparatus Cool endangered containers with water spray jet

Sychem CONTROL Ready for Use

High Level Disinfectant Cleaner

| Section 6: Accidental Release Me | asures | | |
|--------------------------------------|---|--|--|
| 6.1. Personal precautions, protect | ive equipment and emergency procedures | | |
| Personal precautions: | Wear personal protective equipment, gloves and eye/face protection | | |
| 6.2. Environmental precautions | | | |
| Environmental precautions: | Do not allow product to enter waters without treatment. Inform authorities in case of contamination of water or sewage system | | |
| 6.3. Methods and material for cor | 6.3. Methods and material for containment and cleaning up | | |
| Clean-up procedures: | Collect in suitable container. Cover with absorbent, mix and collect mechanically dispose of contaminated material as waste | | |
| 6.4. Reference to other sections | | | |
| Suitable binder: | Multi-purpose absorbent | | |
| Section 7: Handling and Storage | | | |
| 7.1. Precautions for safe handling | | | |
| Handling requirements: | No specific instructions | | |
| 7.2. Conditions for safe storage, in | 7.2. Conditions for safe storage, including any incompatibilities | | |
| Storage conditions: | Protect from heat and direct sunlight, well-ventilated area. Keep container tightly closed | | |
| | | | |
| 7.3. Specific end use(s) | | | |

Section 8: Exposure Controls/Personal Protection

| 8.1. Control parameters | |
|-------------------------|---|
| | No hazardous ingredients |
| 8.1. DNEL/PNEC Values | |
| DNEL / PNEC: | No data available |
| 8.2. Exposure controls | |
| Engineering measures: | No specific guidance required |
| Respiratory protection: | Respiratory protection not require |
| Hand protection: | Wear appropriate protective gloves |
| Eye protection: | Safety glasses not required. Ensure eye bath is to hand |
| Skin protection: | Wear appropriate personal protective equipment |

Sychem CONTROL Ready for Use

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Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| State: | Liquid |
|------------------------|--------------------------------|
| Colour: | Colourless |
| Odour: | Characteristic odour |
| Oxidising: | Non-oxidising (by EC criteria) |
| Solubility: | Fully miscible |
| Viscosity at 20°C: | Non viscous |
| Flash point: | >70°C |
| pH at 20°C: | 6-7 |
| 9.2. Other information | |

No data available

Other information:

Section 10: Stability and Reactivity

| 10.1. Reactivity | |
|--|---|
| 10.2. Chemical stability | None |
| Chemical stability: Minimum shelf life: | Stable under normal conditions 2 years from dilution |
| 10.3. Possibility of hazardous reaction | ons |
| | None |
| 10.4. Conditions to avoid | |
| Conditions to avoid: | Heat |
| 10.5. Incompatible materials | |
| Materials to avoid: | Strong oxidising agents. Strong acid |
| 10.6. Hazardous decomposition products | |
| Haz. decomposition products: | In combustion emits toxic fumes |

Section 11: Toxicological Information

11.1. Information on toxicological effects

Refer to section 4 of SDS for routes of exposure and corresponding systems

Symptoms / routes of exposure: Skin contact: There may be irritation at the site of contact Eye contact: There may be irritation and redness Ingestion: There may be irritation of the throat Inhalation: No symptoms

Sychem CONTROL Ready for Use

High Level Disinfectant Cleaner

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| Section 12: Ecological Information | |
|--|--|
| 12.1. Toxicity | |
| Eco-toxicity values: | No data available |
| | Components are readily biodegradable |
| 12.2. Persistence and degradability | |
| Persistence and degradability: | The surfactants in this product comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the component authorities of the Member States and will be made available to |
| | them at their direct request or at the request of the detergent manufacturer |
| 12.3. Bioaccumulative potential | |
| | No bioaccumulation potential is expected |
| 12.4. Mobility in soil | Deadily sheethad into coil |
| | Readily absorbed into soil |
| 12.5. Results of PBT and vPvB asses | sment |
| PBT identification: | This product is not identified as a PBT substances |
| 12.6. Other adverse effects | |
| | Does not contain substances influencing AOX of waste water Does not contain any heavy metals |
| Section 13: Disposal Consideration | IS |
| 13.1. Waste treatment methods | |
| NB: | Product must be disposed of according to local regulations pertaining to the disposal of hazardous waste empty and clean contaminated packaging with water before recycling The user's attention is drawn to the possible existence of regional or national regulations regarding disposal |
| Section 14: Transport Information | |
| 14.1. UN number UN number: | Not classified |
| 14.2. UN proper shipping name Shipping name: | Not classified |
| 14.3. Transport hazard class(es) Transport class: | Not classified |
| 14.4. Packing groupPacking group:14.5. Environmental hazards | Not classified |

Environmentally hazardous:

Marine pollutant:

No

No



| Section 13: Disposal Consideration | S |
|--|---|
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| NB: | Product must be disposed of according to local regulations pertaining to the disposal of hazardous waste empty and clean contaminated packaging with water before recycling The user's attention is drawn to the possible existence of regional or national regulations regarding disposal |
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| 14.2. UN proper shipping name Shipping name: | Not classified |
| 14.3. Transport hazard class(es) Transport class: | Not classified |
| 14.4. Packing group Packing group: 14.5. Environmental hazards Environmentally hazardous: | Not classified |
| Marine pollutant: 14.6. Special precautions for user | No |
| Section 15: Regulatory Information | 1 |
| 15.1. Specific regulations: | |
| 15.2. Chemical Safety Assessment | Safety, health and environmental regulations/legislation specific for the substance or mixture: National regulations may apply in event of accident |
| , | No significant hazard |
| Section 16: Other Information | |
| Other information: | This safety data sheet is prepare accordance with Commission Regulation (EU) No 453/2010 |
| Phrases used in S.2 and 3: | Not applicable |
| Legal disclaimer: | This information and all further technical advice is based on our present knowledge and is believed to be correct but does not purport to be all infusive and shall be used only as guide This company shall not be held liable for any damage resulting from having contact with the |

above product