Virudet® Super Concentrate
An Alkaline Detergent Cleaner for Medical Instruments and Utensils
Technical Information

Description & Application:

Virudet Super Concentrate is a Super Concentrate Instrument Cleaning Chemistry that has been formulated to provide superior cleaning performance against blood, mucous and even the fattiest soils associated with orthopaedic procedures. They function in all types of water quality and have been proven to revitalize instrument surfaces, is specifically designed for automated decontamination of medical devices such as surgical instruments, anaesthetic and breathing utensils, ward instruments and utensils, MIS instruments, baby bottles and OR shoes (CSSD).

Virudet Super Concentrate is a highly effective and safe process for the cleaning against a wide range of protein and organic contaminants from surfaces, including dried on blood and tissue and should be effective against prions.

Virudet Super Concentrate is registered as a Class I medical Device

It has an effective cleaning action in manual, ultrasonic and automated washer/cleaning equipment.

Primary features attributable to Virudet Super Concentrate are:

- Powerful highly alkaline detergent cleaner suitable for removal of contaminants from sensitive instrument materials;
- Uses a formulation that is free from phosphate, NTA and EDTA components.
- Highly effective even in hard water areas;
- Reduced instrument damage and repair:
  - Excellent material compatibility;
  - Non-fixative;
  - Prevents re-deposition of contaminants and water mark staining;
  - Non-corrosive at working strength and will not damage delicate coatings.
- Cost effective
  - improved staff productivity, more flexible;
  - Uses tap water (no need for deionised/distilled/reverse osmosis water supply);
  - Can be used without the need for neutralisation;
  - High cleaning power at very low dosage levels;
• Reduced wash time (typical 5 minutes).

Applications

Virudet Super Concentrate is a powerful highly alkaline cleaning agent that is ideal for ultrasonic and automated reprocessing of medical devices such as medical instruments and other equipment used in hospitals, health centres, dentists and laboratories.

Compatibility

Virudet Super Concentrate is compatible with stainless steel, chromium plated metals, plastics, rubber, glass and ceramic surfaces.

The concentrate will attack aluminium and alkali sensitive parts, however when diluted to the recommended usage strength then Virudet Super Concentrate solution poses no risk to aluminium surfaces when used at a maximum temperature of 60°C.

Coloured instruments materials should be avoided and a neutral product such as Virudet Duo, Viruzyme or Viruzyme N should be used.

Attention should also be paid to information provided by the manufacturer of the medical device to be cleaned (as required by EN ISO 17664)

Health and Safety

Virudet Super Concentrate is biodegradable.
The neat product is classed as being Corrosive and contact with skin and eyes should be avoided.

See Material Safety Data Sheets for details.

Typical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear pale brown liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight detergent odour</td>
</tr>
<tr>
<td>pH,</td>
<td>12.6 units (1 % solution)</td>
</tr>
<tr>
<td></td>
<td>11.4 units (0.1% solution)</td>
</tr>
<tr>
<td>Density, g/cm³ @ 20 °C</td>
<td>1.33 (neat)</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Complete</td>
</tr>
<tr>
<td>Flash Point (Abel closed cup)</td>
<td>None</td>
</tr>
</tbody>
</table>

Shelf Life: Concentrate – Not less than 3 years in unopened original containers when stored between 5 °C and 30 °C out of direct sunlight.

Directions for Use

Virudet Super Concentrate is supplied as a concentrated product that requires dilution prior to use. The dilution is dependent on the nature and degree of the contaminants. The use of higher temperatures in the cleaning cycle will improve the cleaning power of the Virudet Super Concentrate detergent.
Application:

For Ultrasonic Cleaning of instruments and equipment:

For cleaning applications, dilute 1 part Virudet Super Concentrate in 1000 parts water (i.e. a 0.1% solution)

Note Greater strengths of up to 0.2% Virudet Super Concentrate (i.e. 1 part in 500 parts water) may be used where high levels of contaminants or where difficult or hazardous contaminants may be present.

Soak parts for between 1 and 10 minutes in the diluted Virudet Super Concentrate solution at between 50°C to 60°C (allow longer times up to 15 minutes when dealing with dried on proteinaceous deposits).

Note: soak times may vary according to the temperature used and the nature of the contaminants

After soaking, rinse off thoroughly with clean water (temperature > 40°C) or transfer to the next cleaning stage e.g. manual cleaning, washer/disinfector or ultrasonic equipment.

For Automated Cleaning of Instruments and Equipment:

Injectors should be adjusted to deliver at 1 ml per litre of water (i.e. 0.1% solution).

The recommended cleaning cycle is set out below:

<table>
<thead>
<tr>
<th>Phase</th>
<th>Water type</th>
<th>Time</th>
<th>Temp.</th>
<th>Solution</th>
<th>dosage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-wash</td>
<td>Cold tap water</td>
<td>3 min</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Wash</td>
<td>Hot tap water</td>
<td>5 min</td>
<td>50 to 70°C</td>
<td>Virudet SC</td>
<td>1ml/L or 0.1% 0.7ml/L or 0.07%</td>
</tr>
<tr>
<td></td>
<td>DI/RO Water</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rinse</td>
<td>Hot tap water</td>
<td>1 min</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rinse</td>
<td>Cold tap water</td>
<td>1 min</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Thermo disinfection</td>
<td>DI water</td>
<td>3 min</td>
<td>93°C</td>
<td>Virudet NDA</td>
<td>0.5ml/L or 0.05%</td>
</tr>
<tr>
<td>Drying</td>
<td></td>
<td>15 min</td>
<td>110 to 115°C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For thermal disinfection please follow the actual countries rules
Drying time and temp according to the machine manufacturer

General Notes:

Virudet Super Concentrate is not a disinfectant and parts should proceed to disinfection or sterilisation by appropriate methods immediately following cleaning.

Virudet Super Concentrate should not be used at a temperature less than 50°C in washer/disinfector machines.

Neutralisation following cleaning is not required if the above post cleaning rinse cycle is employed.

For maximum effectiveness in Ultrasonic or other soaking applications, the Virudet Super Concentrate solution should be replaced at least daily or when the observed cleaning action falls off.

Do not add other cleaning agents to the Virudet Super Concentrate solution as they can seriously impair performance of the cleaner.

Disposal of spent solutions:
Flush to drain with copious water or soak up onto inert material and dispose of with clinical waste.

Product is biodegradable under OECD conditions.
CONTACT DETAILS:

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For any further information, please contact your distributor or Amity.

In the event of any technical queries, please contact:
Mr. Ram Singh at the UK/ROW address or by e-mail to:
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Packaging Details:

Virudet Super Concentrate is available in the following packaging.

- 1L container (available on application)
- 5L container
- 10L container
- 25L container
- 200L drums (available on application)
- 1,000L IBC (available on application)