

DESCRIPTION

Holquat is based on a Quaternary Ammonium Chloride Biocide (QAC) together with wetting and chelating agents. The components meet the requirements of current European Legislation and the QAC is supported in the Biocidal Products Directive (98/8/EC).

When used as directed, Holquat is suitable for use as a disinfectant in Food and Beverage production plants, Food and Beverage Preparation/Serving areas and Food Storage areas. The broad spectrum of biocidal activity also makes Holquat suitable for use in other high risk industries where good antimicrobial control is required (high care production plants and institutional areas such as schools, nursing homes and hospitals).

Holquat has been independently tested by: -

- 1) **Campden BRI** and passes EN1276 (10°C) and EN1650 (20°C) at 1% (2% for *Aspergillus niger*). Holquat also passed a Triangle Contact Taint test at 2% (BS5929 Part 3:1984).
- 2) **Lab-Test Laboratorium SC** and passes EN13697 (surface test) for bacteria (20°C at 0.5%).

USE INSTRUCTIONS

Use Holquat at concentrations between 1% and 3% v/v depending on application.

Holquat is suitable for disinfecting food contact surfaces; it is not suitable for disinfection of food stuffs.

The following are typical example applications, users should refer to Cleaning Instruction Cards for specific guidance. Other applications should be discussed with your Holchem Consultant.

Note: For use under recommended conditions, or variations thereof, users should validate cleaning and disinfection by an appropriate post disinfection swabbing regime.

Surface Disinfection. Holquat is used as a surface disinfectant (1% v/v is recommended) following thorough cleaning. It can be applied as a spray through a trigger, pump-up, backpack, pressurised canister sprayer or a venturi applicator. Holquat should be allowed a contact time of at least 15 minutes. It is non-tainting and not classified as toxic according to "Chemicals (Hazard Information and Packaging for Supply) Regulations 2009".

Soak Application. Holquat is used for dip or soak disinfection of equipment parts, utensils and tools. For maximum efficacy, items must be soaked for at least 15 minutes at a recommended concentration of 1% v/v. If on removing items from the soak bath there is potential for hold-up or pooling of liquid, it is advisable to rinse items in potable water before re-use. Holquat can also be used for dip or spray disinfection of sealed packaged foodstuffs being transferred from a low risk to a high care environment. Holquat is non-tainting, but on opening packages, care should be taken to avoid transfer of Holquat solutions onto foodstuffs, rinsing with potable quality water may be necessary.

Cleaning. Holquat can be used at 1% to 2% v/v for cleaning lightly soiled food contact surfaces. Solutions can be used at ambient temperature, or up to 50°C; detergency increases with temperature but care should be taken to ensure that the surface can withstand hot solutions. To ensure maximum biocidal action it is advisable to re-wipe clean surfaces with a second application of Holquat before air drying or rinsing with potable quality water.

Holquat is suitable for semi-dry cleaning of sensitive equipment for example weighing scales, computer terminals, and packaging machines. Concentrations are typically 1% to 2% v/v. Liquid can be applied from a dampened clean cloth. Care should be taken to ensure that electrical items are disconnected from the supply and left dry after cleaning.

Fogging. Holquat can be fogged at up to 3% v/v into air spaces to control airborne micro-organisms. Fogging, where required, should be used as part of a total cleaning and disinfection regime. During fogging all personnel must be evacuated from the area and fogged areas must not be re-entered until all the fog has settled (typically 1 hour). After fogging it is advisable to rinse surfaces with potable quality water. Advice on fogging is available from Holchem.

BENEFITS

- QAC Biocides giving wide spectrum of activity at low concentrations.
- Non-tainting.
- For light soils can be used as a single detergent / sanitiser.
- Independent support data for efficacy.
- This product does not contain any alcohol or other intoxicating substances; we therefore believe that it is suitable for use in Halal production environments.


BIOCIDAL EFFICACY

Holquat demonstrated antimicrobial efficacy against bacteria, yeast and fungi when tested in accordance with the following methods. Full details of test results are available on request.

Organism	EN1276	EN13697	EN1650
<i>Staphylococcus aureus</i>	✓	✓	
MRSA	✓	-	
<i>Enterococcus hirae</i>	✓	✓	
<i>Escherichia coli</i>	✓	✓	
<i>Pseudomonas aeruginosa</i>	✓	✓	
<i>Salmonella typhimurium</i>	✓		
<i>Salmonella enterica</i>	✓	✓	
<i>Listeria monocytogenes</i>	✓	✓	
<i>Yersinia enterocolitica</i>	✓	-	
<i>Bacillus cereus</i>	✓	-	
<i>Escherichia coli</i> 0157:H7	✓	-	
<i>Saccharomyces cerevisiae</i>		-	✓
<i>Aspergillus niger</i>		-	✓
<i>Candida albicans</i>		-	✓

	NOT APPLICABLE TO STANDARD
-	NOT TESTED

TECHNICAL DATA

Appearance	Clear blue non-viscous liquid
Odour	Detergent
Foam	Medium foam
Specific Gravity at 20°C	1.08
pH (neat)	13.0 – 13.5
pH (1% solution) at 20°C	10.5 – 11.5
Chemical Oxygen Demand (COD)	310 g/L (As supplied)
Nitrogen Content (N)	11.37 g/L (As supplied)
Storage Temperature Range	- 5°C to + 40°C
Shelf Life	Minimum of 2 years under normal conditions
Holchem Classification	

PRODUCT COMPATIBILITY

It is safe for use on all common materials of construction at 1% v/v; however prolonged contact with Copper, Brass, Nickel and Chrome should be avoided. Surfaces containing these metals should not be left soaking in the solution for more than 20 minutes.

QAC's are readily water soluble, if a business has concerns about the potential for transfer of the QAC's to produce, we recommend rinsing of the food contact surfaces with potable quality water to remove the disinfectant; after a suitable contact time (15 minutes).

TEST METHODS

CONDUCTIVITY

The specific conductivity at 20°C is approximately 1.26 mS / per 1% v/v, however because this is very low it is not recommended that conductivity is used as the sole means of controlling and validating the dosing of Holquat.

DROPPER TEST (QAC TEST KIT)

Reagent	Ref.	Equipment	Ref.
QA1	SKS00803-01	20 ml Syringe	SKS00822
QA2	SKS00803-02	Polycarbonate Test Jar	SKS00823
QA3	SKS00803-03		

Step Method

- 1 Using the syringe, transfer 20 ml of the test solution into the test jar.
- 2 Add 20 drops of reagent QA1, shake or swirl to mix.
- 3 Add reagent QA2 dropwise until the solution turns purple. Add 5 extra drops of reagent QA2.
- 4 Add reagent QA3 dropwise, shaking or swirling the bottle after each addition to mix properly, until the purple colour is discharged giving a cloudy, yellow solution.
- 5 % v/v Product = (No. of drops of QA3) x 0.11

SAFE HANDLING & STORAGE

Keep above the chemical's freezing point. Keep containers tightly closed.

COSHH places a duty on employers to assess and control the risks of using hazardous substances. The Safety Data Sheet provides the relevant information about the product to assist with this assessment.

PACKS

Holquat is available in the following pack sizes:

- 4 x 5 Kg
- 25 Kg
- 200 Kg
- 1000 Kg
- Bulk

GENERAL

For accident, emergency and health & safety information refer to the Safety Data Sheet for this product. This product is registered in the UK with the National Poisons Information Service.

EMERGENCY TELEPHONE NUMBERS

Outside Office Hours: - For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice call: - +44(0) 7050 265597.

Note: This number will not accept order queries or calls dealing with equipment breakdowns.

Environment Agency (24 hr Advisory Service) 0800 807060

Irish Environment Protection Agency 1890 335599

Whilst every effort is made to ensure that the information given in this product information sheet is accurate it is given without guarantee, since the conditions of use are beyond our control.