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**MATERIAL SAFETY DATA SHEET**  
**PRODUCT**  
**AntiBak Residual rtu**

**1. DESCRIPTION / PROPERTIES (nature, reactivity):**

A ready to use broad spectrum residual biocidal agent.

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

HAZARDOUS COMPONENT	CAS NO	EINECS	% CONCENTRATION	HAZARD	RISK PHRASES	OES
Quaternary Ammonium Compound	7173-51-5	230-525-2	0 → 0.5%	C, N	R22, 34, 50	-

**3. HAZARD IDENTIFICATION**

a) **Fire/Explosion Hazard (stability, flammability, combustion products):**

Non-flammable

b) **Health Hazard (inhalation, ingestion, contact with skin or eyes):**

Not classified as hazardous for use. Product may cause irritation to the eyes and skin on prolonged or repeated contact. As with all biocidal chemicals care should be taken to avoid skin and eye contact. Do not ingest as will kill the bacteria present in the digestive system.

c) **Environmental Hazard:**

Not classified as hazardous to the environment.

**4. FIRST AID MEASURES**

<b>INHALATION</b>	Remove to fresh air, keep warm and rest. In case of shortness of breath seek medical advice.
<b>SKIN CONTACT</b>	Remove contaminated clothing and wash and dry before re-use. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. If symptoms persist seek medical advice.
<b>EYE CONTACT</b>	Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes. Seek medical advice.
<b>INGESTION</b>	If accidentally swallowed rinse mouth immediately with water and dilute stomach contents with water. Do not induce vomiting. Seek medical attention.

**5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media:**

Since the product is not flammable, if involved in a fire, use extinguishing media appropriate to the source of the fire.

**Protection for fire fighters:**

Wear self-contained breathing apparatus. Wear protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**

Mark out contaminated area with signs and prevent access to unauthorised personnel.

**Environmental Precautions:**

Do not allow concentrate to enter drains or water courses. If it does contact the local water authority.

**Clean up Procedures:**

Disperse small spillages with large excess of water. Large spillages - contain, absorb and pick up, place in sealed containers for disposal via licensed contractor. Wash down traces with excess of water.

## Antibak Residual rtu

### 7. HANDLING AND STORAGE

**Handling:**

Does not require any specific measures.

**Storage:**

May be stored for periods over six months in plastic containers as supplied. Do not exceed temperatures of 35° Celsius.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Component Exposure Limits:**

Component Name	Concentration in preparation	8 hour exposure limit	Short term exposure limit
None listed			

References: HSE Guidance Note EH40 2002 and supplement.

**Engineering Controls:** Provide eyewash station

**Personal Protection:** **Hand:** Use protective gloves made of neoprene or nitrile.

**Eyes:** Wear safety glasses.

Normal precautions in handling industrial chemicals should be applied when handling this concentrate. Use in well-ventilated areas.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Clear colourless to pale yellow liquid
Specific Gravity at 20°C	:	1.0 g/l
Solubility in water	:	Complete
pH	:	>9 as supplied
Flash Point	:	>100°C
Odour	:	Faint

### 10. STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials to avoid:** No known adverse reactions.

**Hazardous decomposition products:** No specific hazardous decomposition products known.

### 11. TOXICOLOGICAL INFORMATION

**Health Effects:**

**Respiratory:** May cause coughing or throat irritation.

**Skin:** May cause irritation.

**Eyes:** Splashes in the eye may cause irritation and redness.

**Ingestion:** May cause irritation to mouth and digestive tract.

**Toxicological Data:**

Acute Toxicity : Not determined.

For individual components:

Component	Acute Toxicity
Quaternary Ammonium Compound	LD50 Dermal (rat): 2600mg/kg LD50 Oral (rat): 645mg/kg

**12. ECOLOGICAL INFORMATION****Ecotoxicity:**

For individual components

<b>Component</b>	<b>Acute Toxicity</b>
Quaternary Ammonium Compound	LC50 / 96h: 1 - 10mg/l (fish) IC50 / 96hr: <1.0mg/l (algae)

**Degradability:**

This product is expected to be biodegradable

**Bioaccumulation:**

No bioaccumulation is expected. The product is biodegradable and water-soluble.

**13. DISPOSAL CONSIDERATION**

**Disposal methods:** Absorb with chemical spill pads, chemical spill binder (i.e. Spill Magnet) sand, clay, or vermiculite and dispose of in accordance with Water Authority and Waste Disposal Regulations. Wash down spill area with large quantities of water.

**14. TRANSPORT INFORMATION**

Not classified as hazardous for transport purposes

**15. REGULATORY INFORMATION**

Not classified as hazardous for use.

Safety Phrases (advisory only).

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37: Wear suitable gloves.

**Regulatory Information:****UK Regulatory References:** The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002.

EH40/2002: Occupational Exposure Limits 2002.

**EC Directives:**

Dangerous Preparations Directive (1999/45/EC).

Safety Data Sheets Directive (2001/58/EC).

**Approved Code of Practice:**

The Compilation of Safety Data Sheets.

**16. OTHER INFORMATION****PLEASE NOTE:**

The above information is based on the present state of our knowledge at the time of publication. It is given in good faith and no warranty is implied with respect to quality or specification of product. The user must satisfy himself that the product is entirely suitable.

**SIGNATURE:** \_\_\_\_\_**Date: 4<sup>th</sup> August 2004**