

Safety Data Sheet (SDS) QAC Kleen

Section 1: Identification

Product Identifier:	QAC Kleen
Recommended Use:	QAC Disinfectant Cleaner for wiping, spraying and fogging. With QAC disinfectant suitable for fighting against viruses and bacteria. Contains Benzalkonium Chloride and is recommended to kill bacteria, viruses including coronaviruses. Biodegradable.
Supplier:	Consolidated System(S) Pte Ltd 38 Tuas View Loop Singapore 637695 Tel: +65 6861 6328 (Mon-Fri 8:30am – 5:30pm) Fax: +65 6861 3237 Email: sales@consolidatedsystem.com.sg

Section 2: Hazards Identification

GHS Classification

Skin Corrosion / Irritation	Category 2
Acute Toxicity - Oral	Category 4
Serious Eye Damage / Irritation	Category 2

GHS Label Elements

Pictograms:



Signal Word: Warning

Hazard Statements:

H302 + H312:	Harmful if swallowed or in contact with skin.
H315 + H320:	Causes skin and eye irritation.

Precautionary Statements:

P102:	Keep out of reach of children.
P103:	Read label before use.
P264:	Wash hands thoroughly after handling.
P280:	Wear protective gloves.

Response:

P301 + P330 + P331: If Swallowed: Rinse mouth, Do NOT induce vomiting.
P303 + P361 + P353: If on Skin: Remove/take off immediately all contaminated clothing. Rinse skin with water / shower.
P352: (After handling) Wash hands thoroughly with soap and water.
P363: Wash contaminated clothing before reuse.
P305 + P351 + P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

Storage:

P402: Store in a dry place.
P403: Store in a well-ventilated place.

Disposal:

P501: Dispose of contents / containers in accordance with Singapore regulations.

Section 3: Composition / Information on Ingredients

Component Name	CAS	Composition
Benzalkonium Chloride	63449-41-2	8%
Non-ionic Surfactant		<2%
Salts of EDTA	64-02-8	<2%

Section 4: First Aid Measures**General Advice:**

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Seek medical advice if you feel unwell. Show this safety data sheet to the doctor in attendance.

Inhalation:

If inhaled, move person into fresh air and keep at rest in a position comfortable for breathing.

Skin Contact:

After handling, wash hands thoroughly with soap and water. If on skin, remove/take off immediately all contaminated clothing. Rinse skin with water / shower. Wash contaminated clothing before reuse

Eye Contact:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical advice.

Ingestion:

If Swallowed: Rinse mouth, Do NOT induce vomiting. Seek medical advice immediately.

Section 5: Fire-fighting Measures

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific Hazards Arising From the Chemical:

Do not allow run-off from fire fighting to enter drains or water courses.

Special Protective Actions for Fire Fighters:

In event of fire, wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Measures:

For personal protection, see section 8. Use personal protective equipment (e.g. gloves, boots) and ensure adequate ventilation. Avoid contact eyes and skin.

Environmental Precautions:

Do not flush into surface or sanitary sewer system. If the product contaminates rivers, reservoirs or drains, inform respective authorities.

Methods and Materials for Containment and Cleaning Up:

Soak up with inert absorbent material (e.g. sawdust, earth). Keep in suitable, closed containers for disposal. Disposal according to local regulations.

Section 7: Handling and Storage

Precautions for Safe Handling:

For personal protection, see section 8. Avoid contact with eyes, skin and clothing. Eating, drinking or smoking in work areas is prohibited. After handling, always wash hands thoroughly with soap and water. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed and properly and accurately labelled in a dry and well-ventilated place.

Directions for Fire and Explosion Protection:

Do not store with oxidants or explosive materials.

Section 8: Exposure Controls / Personal Protection

Control Parameters / Occupational Exposure Limits:

N.A.

Appropriate Engineering Control Measures:

Effective exhaust ventilation system. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection:

Respiratory Protection:

In case of vapour formation, use a respirator with an approved filter

Skin Protection:

Wear chemical resistant gloves such as Nitrile Rubber Gloves / PVC Gloves. Also recommended to wear chemical resistant safety boots. Always decontaminate your PPE after every use.

Eye Protection:

Wear safety glasses as a minimum eye protection. Conditions may warrant the use of chemical goggles and possibly a face shield. Consult your standard operating procedure or safety professional for advice.

Section 9: Physical and Chemical Properties

Appearance at 25°C	Clear Liquid
Odour:	Characteristic
pH:	7.1 (+/- 1)
Freezing point:	Not applicable and/or not determined for this mixture
Initial boiling point / range:	Not applicable and/or not determined for this mixture
Flashpoint:	Not applicable and/or not determined for this mixture
Evaporation Rate:	Not applicable and/or not determined for this mixture
Flammability:	Not applicable and/or not determined for this mixture
Upper/lower flammability:	Not applicable and/or not determined for this mixture
Vapour Pressure:	Non volatile
Vapour Density:	Not applicable and/or not determined for this mixture
Relative Density:	1.001
Solubility in water at 25oC:	Completely soluble
Partition Coefficient:	Not applicable and/or not determined for this mixture
Auto-ignition temperature:	Not applicable and/or not determined for this mixture
Decomposition temperature:	Not applicable and/or not determined for this mixture
Viscosity:	Not available

Section 10: Stability and Reactivity

Reactivity:

N.A.

Chemical Stability:

Product is stable

Possibility of Hazardous Reactions:

Product is stable under normal conditions

Conditions to Avoid:

N.A.

Incompatible Materials:

N.A.

Hazardous Decomposition Products:

No hazardous decomposition products are known. Burning can produce carbon dioxide and carbon monoxide as with any materials.

Section 11: Toxicological Information

Inhalation:

Inhalation may cause irritation to mucous membranes. May cause nausea. May cause headaches.

Skin:

May cause skin irritation in susceptible persons.

Skin inflammation is characterized by itching, scaling, reddening or occasionally, blistering.

Effect will depend on concentration and length of time of exposure

Eyes:

May cause irreversible eye damage

Ingestion:

May cause irritation to mucous membranes.

May cause gastrointestinal disturbances.

Section 12: Ecological Information

Ecotoxicity Effects:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and Degradability

Fully biodegradable.

Bioaccumulative Potential

The ingredients used demonstrate low potential for bioaccumulation

Mobility in Soil

No available information

Other Adverse Effects

N.A.

Section 13: Disposal Considerations

Dispose of all waste and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations. Recovery and reuse, rather than disposal, should be the ultimate goal of handling efforts. The materials resulting from the clean-up operations may be hazardous wastes and therefore, subject to specific regulations. Use only licensed transporters and permitted facilities for waste disposal.

Section 14: Transport Considerations

UN Number: N/A (not classified as hazardous)

This product is not regulated under transport regulations.

Section 15: Regulatory Information

Applicable National Regulations:

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subject to the SDS, labelling and other requirements in the Act/Regulations.

Environmental Protection and Management Act: This product is subject to the requirements in the Act/Regulations.

Section 16: Other Information

Usage information

1:10 dilution – suitable for hand sanitization with QAC Benzalkonium Chloride (over 0.05% concentration)

1: 40 dilution – suitable for spraying, misting, wiping of equipment, surfaces, foot baths etc. Avoid adding to soaps as active quaternary will be inactivated

1: 80 dilution – suitable for spraying, misting, wiping of food processing equipment, surfaces etc. Avoid adding to soaps as active quaternary will be inactivated

Effective against the following bacteria: *Listeria monocytogenes*, *Bacillus cereus*, *Staphylococcus aureus*, *Staphylococcus typhimurium*, *Pseudomonas aeruginosa*, *Escherichia coli*

Product proudly manufactured in Singapore.

Consolidated System(S) Pte Ltd is a one-stop distributor of professional cleaning machines, janitorial supplies and professional cleaning chemicals. Please feel free to contact us if you have any questions on this product or face any cleaning problems.

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