



# SAFETY DATA SHEET

**PRODUCT NAME:** KEEP KLEEN

Issue Date: May 23

## IDENTIFICATION

**Product Name:** Keep Kleen  
**Other Names:** Benzyl-C12-16-alkyldimethylammonium chloride  
**Product Code:** KKK2, KKK5, KKK10, KKK20, KKK100, KKK1000, CHQUAT50  
**Uses:** Slow-release algaecide/cleaner/moss remover  
**Supplier:** HamChem Hamilton Chemicals Ltd, 75 Ruffell Rd, Hamilton  
Phone: 07 974 4971 Web: [www.hamchem.co.nz](http://www.hamchem.co.nz) Email: [info@hamchem.nz](mailto:info@hamchem.nz)

- In emergency dial 111, and then ask for Fire, Ambulance or Police as necessary.
- In case of poisoning phone National Poisons Centre – 0800 764 766

## HAZARD IDENTIFICATION



### GHS Classifications

Acute Toxicity (Oral) – Category 4  
Acute Toxicity (Dermal) – Category 4  
Skin Corrosion – Category 1B  
Serious Eye Damage – Category 1  
Hazardous to the Aquatic Environment (Acute) – Category 1

**Signal Word:** Danger

### Hazard Statements:

H303 – Harmful if swallowed  
H312 – Harmful in contact with skin  
H314 – Causes severe skin burns and eye damage  
H318 – Causes serious eye damage  
H400 – Very toxic to aquatic life

### Prevention

P264 – Wash all affected areas of the body thoroughly after use.  
P270 – Do not eat, drink or smoke when using this product.  
P280 – Wear protective clothing/gloves and eye/face protection.  
P260 – Do not breathe dusts or mists  
P273 – Avoid release to the environment

### Response

P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P312 – Call a POISON CENTRE or Doctor if you feel unwell  
P303 + P361 + P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower)  
P312 – Call a POISON CENTRE or Doctor if you feel unwell  
P363 – Wash contaminated clothing before reuse

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**PRODUCT NAME: KEEP KLEEN**

P305 + P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTRE or Doctor.

P304+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 – Immediately call a POISON CENTRE or Doctor.

P391 – Collect spillage

**Storage**

P405 – Store locked up

**Disposal**

P501 – Dispose of contents/container to an approved waste facility in accordance with local regulations

**At dilute concentration (20:1, 50mL/litre in Water)****GHS Classifications**

Skin Corrosion – Category 1B

Serious Eye Damage – Category 1

Hazardous to the Aquatic Environment (Acute) – Category 1

**Signal Word:** Danger

**Hazard Statements:**

H314 – Causes severe skin burns and eye damage

H318 – Causes serious eye damage

H400 – Very toxic to aquatic life

**Prevention:**

P260 – Do not breathe dusts or mists

P264 – Wash all parts of body thoroughly after handling

P280 – Wear protective gloves/clothing and eye/face protection

P273 – Avoid release to the environment

**Response:**

P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with soap and water.

P363 – Wash contaminated clothing before reuse

P301+P340 – IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 – Immediately call a POISON CENTRE or Doctor

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

P310 – Immediately call a POISON CENTRE or Doctor

P391 – Collect spillage

**Storage**

P405 - Store locked up

**Disposal**

P501 – Dispose of contents/container to an approved waste facility in accordance with local regulations.

**PRODUCT NAME: KEEP KLEEN**

**COMPOSITION & INFORMATION ON INGREDIENTS**

Chemical Entity	CAS No.	Proportion (%)
Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	50
Balance of components (deemed non-hazardous)		50

**At dilute concentration (20:1, 50mL/litre in Water)**

Benzyl-C12-16-alkyldimethylammonium chloride	68424-85-1	2.5
Balance of components (deemed non-hazardous)		97.5

**FIRST AID MEASURES**

**If swallowed:** Rinse mouth. Do NOT induce vomiting. Call a Poison Centre or Doctor if you feel unwell. May cause chemical burns in mouth and throat.

**At dilute concentration (20:1)**

**If swallowed:** If large amounts of substance have been swallowed, call a POISON CENTRE or Doctor. Rinse mouth. If conscious, give 3-4 glasses of milk (or if unavailable, water). Do NOT induce vomiting.

**If on skin:** Wash skin immediately with soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before reuse.

**At dilute concentration (20:1)**

**If on skin:** Wash affected area thoroughly with soap and water.

**If inhaled:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Centre or Doctor if you feel unwell.

**At dilute concentration (20:1)**

**If inhaled:** No first aid measures normally required. If breathing is difficult, follow advice for full strength product and seek medical attention if required.

**If in eyes:** Immediately rinse eyes with running water. Remove contact lenses (if present) and continue flushing. Get medical advice/attention.

**At dilute concentration (20:1)**

**If in eyes:** Immediately rinse eyes with running water. Remove contact lenses (if present) and continue flushing. Get medical advice/attention.

**Note to Physician:** Treat symptomatically.

**FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Compatible with all usual extinguishing media.

**Extinguishing Media that must not be used for Safety Reasons:** High volume water jet.

**Special Hazards from the substance itself, its combustion products or from its vapours:** In the event of fire, toxic fumes are emitted.

**At dilute concentration (20:1)**

**Specific Hazards:** Non-combustible material. No risk of explosion from this product if involved in a fire. No decomposition products are expected.

**Special Protective Equipment for Firefighting:** Firefighters should use self-contained breathing apparatus (SCBA) and protective clothing.

<b>PRODUCT NAME:</b>	<b>KEEP KLEEN</b>
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**Further Information:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Vigorous flushing with water will cause foam.

<b>ACCIDENTAL RELEASE MEASURES</b>
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**Environmental Precautions:** Do not discharge concentrated product into the environment. Do not allow concentrated product to enter water courses or drains.

**Methods for Cleaning Up:** Remove leaking containers to a detached area. Bund spill area and recover – consider recycling. Contain spill with inert material. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed, labelled containers for disposal.

**Additional Information:** Floors will become slippery. Vigorous flushing may generate copious foam. Concentrated product must not be released into sewers, drains or wells. Personnel involved in clean-up require adequate respiratory, skin and eye protection in case of large spillage. Use water to clean equipment.

<b>HANDLING &amp; STORAGE</b>
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**Handling advice:** The product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with government regulations. Ensure adequate ventilation. Avoid direct contact with the substance. Read label before use.

**Storage advice:** Keep container tightly closed in a dry, well-ventilated place. Avoid elevated temperatures. Reacts with copper, aluminum, zinc and their alloys.

<b>EXPOSURE CONTROLS &amp; PERSONAL PROTECTION</b>
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**Exposure standards:** NZ Workplace Exposure Standards (WES) have not been established for this substance.

**Engineering controls:** Ventilation: In processes where mists or vapours may be generated, proper ventilation must be provided in accordance with good ventilation practices. Provide eyewash station and safety shower.

**Personal protective equipment:** Respiratory Protection – If working in a confined space where ventilation is limited or a visible mist is being generated use approved half face respirator with combination cartridge filters, suitable for vapours. Eye Protection – Safety glasses/goggles or face shield. Hand Protection – Suitable protective gloves (nitrile rubber or butyl-rubber). Skin/Body Protection – Protective clothing, PVC apron and boots or full overalls.

<b>At dilute concentration (20:1)</b>
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**Personal protective equipment:** Wear goggles or safety glasses, particularly while diluting the product. Wear impervious gloves. Wash thoroughly after handling. Do not eat, drink or smoke while using the product. Wear a face mask suitable for mists.

<b>PHYSICAL &amp; CHEMICAL PROPERTIES</b>
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<b>Appearance:</b>	Colourless to pale yellow liquid.
<b>Odour:</b>	Slight almond.
<b>Specific Gravity:</b>	0.98g/mL @20°C
<b>Solubility in water:</b>	Soluble.
<b>Flash point:</b>	Not flammable.
<b>Flammability limits:</b>	N/A
<b>Boiling point:</b>	100°C
<b>Melting point:</b>	N/A
<b>pH:</b>	8.0

<b>STABILITY &amp; REACTIVITY</b>
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**Stability:** Stable at normal temperatures.

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**Incompatible Materials:** Mild Steel, Copper alloys, Strong acids.

**Thermal Decomposition:** No decomposition if used as prescribed.

**Hazardous decomposition products:** Toxic organic vapours/fumes, amines, carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride.

**At dilute concentration (20:1)**

**Hazardous decomposition products:** No decomposition products are expected.

**Conditions to avoid:** Avoid contact with strong oxidising/reducing agents.

**At dilute concentration (20:1)**

**Conditions to avoid:** Dilute product is incompatible with anionic surfactants.

**Hazardous Reactions:** No hazardous reactions when stored and handled according to prescribed instructions.

### TOXICOLOGICAL INFORMATION

**Toxicity data:**

Acute oral toxicity (rat) LD50: 680 – 1050mg/kg

Acute dermal toxicity (rabbit) LD50: 3418mg/kg

Skin irritation severe irritant (rabbit): 80% active soln. 72 hours not reversed.  
(rat): 6-10% repeated exposures 2 weeks.

Eye irritation severe irritant (rabbit): 80% active caused irritation that did not clear by day 3 post dose.  
Sensitisation: May cause skin and respiratory sensitisation.

Reproductive toxicity (rat): Not tetraogenic.  
(rat): 2<sup>nd</sup> generation study – no neonatal/parental effects at 1000ppm, observed at 2000ppm.

**Mutagenic Effects:** No data, not expected.

**Carcinogenic Effects:** No data, not expected.

### ECOLOGICAL INFORMATION

**Ecotoxicity (Aquatic & Terrestrial):** Considered to be very toxic to the aquatic environment.

LC50 Bluegill sunfish: 2.35ppm 96 hours (for closely related 80% product)

LC50 Rainbow trout: 7.8ppm 96 hours (for closely related 80% product)

LC50 Bobwhite quail: 2700ppm 8 days (for closely related 80% product)

LC50 Mallard Duck: >4500ppm 8 days (for closely related 80% product)

**Persistence & degradability:** Biodegradable in concentrations below 20ppm.

**Mobility:** Water – completely soluble

**Additional Information:** Avoid contaminating waterways. Do not allow concentrated material to enter drains or waterways.

### DISPOSAL CONSIDERATIONS

**Product:** Dispose of in accordance with local authority regulations.

**Packaging:** Consider recycling or return to supplier for disposal.

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**TRANSPORT INFORMATION**

Not regulated for transport of dangerous goods.

**REGULATORY INFORMATION**

**HSNO Classifications:** 6.1D (O & D), 8.2B, 8.3A, 9.1A

***At dilute concentration (20:1)***

**HSNO Classifications:** 8.2B, 8.3A, 9.1A

**EPA Approval #** HSR002491 – Additives, Process Chemicals & Raw Materials (Corrosive) Group Standard 2020

**OTHER INFORMATION**

**End of SDS.**