

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

Kemsol MOSS-KILL A quaternary based cleaner for outside use.
Active against most common forms of bacteria, fungi, moulds, algae & lichen

CHEMICAL SOLUTIONS LTD

1 Freight Place
Airport Oaks
Auckland 2022
New Zealand.

PO Box 107-105, Auckland Airport 2150, Auckland, New Zealand.

Phone: (64-9) 255-5609
Fax: (64-9) 255-5610
E-mail: sales@kemsol.co.nz
Website: www.kemsol.co.nz

EMERGENCY CONTACT: Phone (64-9) 255-5609 8 am to 5 pm Mon to Fri
After Hours: National Poisons & Hazardous Chemical Information Centre: 0800-764-766 (0800-POISON)

2. HAZARD IDENTIFICATION:

This material is hazardous according to the criteria of the Health & Safety at work (Hazardous substances) Regulations 2017.
This material is hazardous according to the EPA Minimum Degrees of Hazard and Classification Notices 2017.

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| 6.1D Harmful if swallowed or skin contact occurs. | 8.2C Causes skin burn. |
| 6.5A May cause allergy or asthma symptoms or breathing difficulties if inhaled | 8.3A Causes serious eye damage |
| 6.5B May cause an allergic skin reaction. | 9.1B Toxic to aquatic life with long lasting effects. |
| 6.9B May cause damage to body organs. | 9.3C Harmful to terrestrial vertebrates. |

Cleaning Products Corrosive Group Standard:

HSR No: 00002526.

3. COMPOSITION & INFORMATION ON INGREDIENTS:

Benzalkonium chloride (CAS# 8001-54-5)	100 g/l
Mineral buffer	< 2 %
Water	to 100 %

4. FIRST AID MEASURES:

- Contact with eyes: Rinse eyes with running water holding back eyelids for 15 minutes. If irritation persists, seek immediate medical advice with transport to hospital or emergency clinic possible.
- Contact with skin: Wash affected area with copious volumes of water (use emergency shower). If clothing is contaminated, remove and wash the affected skin area. If irritation or swelling occurs, seek medical advice.
- After inhalation: A non-volatile product in normal use. But if subject to vapourisation remove the patient from exposure to a comfortable location and seek medical advice.
- After ingestion: Do Not Induce Vomiting. Administer 2 glasses of water or milk and seek immediate medical advice. Transport to hospital or emergency clinic without delay.
- Advice to Doctor: Treat patient for acute exposure to material with corrosive and toxic effects. Have this SDS or a product label on hand.

5. FIRE FIGHTING MEASURES:

This product is neither flammable nor combustible.
Containers subject to the heat of a prolonged fire may explode or erupt scattering contents. Where possible remove drums and containers from the path of a fire, or cool with water spray.
Firefighters must wear SCBA and chemical resistant suits.
Firefighters may use fog (preferred) or water spray (not jet), foam, CO₂, or dry chemical powder to extinguish a fire in the vicinity.

6. ACCIDENTAL RELEASE MEASURES:

Spills on floors will produce a slippery surface. Signage preventing foot traffic should be erected where appropriate.
Minor spills (up to 20 litres) should be diluted with water, neutralised where possible and removed with mops, absorbed with Mineral Sponge, dry rags, paper, sand, or soil. It may be possible to drain small neutralised spills to wastewater where this is permitted.
Large spills (drums and IBCs) should be contained from local drainage with any suitable bund or barrier. If possible dilute the spill without increasing the possibility of non-containment, and clean up with absorbant material such as Mineral Sponge, dry earth, sand, or soil. Where a liquid suction cleaning machine is available, it should be used only after neutralising the spill.

7. HANDLING AND STORAGE:

Store drums and carboys with secure closures in sites where they can be kept cool and dry, and away from heat sources.
Handle to prevent damage to containers. Should packaging be damaged, repack into clean and dry containers of the same type and mark the product name carefully on the container.
Always replace lids and caps after using the product. Return all packages to safe storage as soon as possible after use.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

Exposure controls: No data is available for Kemsol Moss-kill. No WES is available for Benzalkonium chloride.
 Eye protection: Safety glasses.
 Protective clothing: Chemically impregnable gloves, work shoes, protective work clothes (an apron or overalls).
 Respiratory protection: Not required for the regular use of this product. If the liquid is being sprayed or vaporised, a face shield and/or respirator must be worn. These operations should be carried out by trained personnel only.
 Ventilation: Where spraying or vaporising is being carried out, ensure there is ready access to eyewash units and safety shower. Also ensure adequate ventilation is provided in the work space.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Clear uncoloured liquid	
Odour	None	
pH	10.5 ± 0.5	
Flash Point	Not applicable	
Ignition Point	Not applicable	
Specific Gravity	1.00 ± 0.01	
Refractive Index	1.353 ± 0.005	13½ Bx
Viscosity	Not applicable	
Relative Foam	Medium	
Solubility in water	Completely in all proportions	

10. STABILITY AND REACTIVITY:

Kemsol Moss-kill is considered stable under normal storage conditions.
 Avoid contamination with oxidising substances.
 Hazardous polymerisation will not occur.
 Combustion of this product will release oxides of carbon and nitrogen

11. TOXICOLOGICAL INFORMATION:

No data is available Kemsol Moss-kill.
 For Benzalkonium chloride: LD50 Rat 1420 mg/kg LD50 mouse 150 mg/kg

12. ECOLOGICAL INFORMATION:

No data is available Kemsol Moss-kill.
 For Benzalkonium chloride: LC50 fathead minnow 0.28 mg/l 96 hr exposure. EC50 daphnia magna 0.006 mg/l 48 hr exposure.

13. DISPOSAL CONSIDERATIONS:

Dispose of in accordance with local regulations by recognised waste disposal experts. Landfill or incineration is the preferred method.
 Spilled liquids may be neutralised, diluted, and disposed of through town wastewater systems where these are authorised for industrial use.
 Used containers should be rinsed, not recycled, but disposed of in landfill or incinerated

14. TRANSPORT INFORMATION:

NZ Land Transport Rule: Dangerous Goods Rule 2005	Classified as a Dangerous Goods for Land Transport in New Zealand.
UN Number:	1903
Dangerous Goods Class:	8
Proper shipping name:	Disinfectant liquid, corrosive, NOS (benzalkonium chloride)
Hazchem Group:	2R
Packing Group:	III

15. NZ REGULATORY INFORMATION:

This material is hazardous according to the criteria of the Health & Safety at work (Hazardous substances) Regulations 2017.
 This material is hazardous according to the EPA Minimum Degrees of Hazard and Classification Notices 2017.
 Cleaning Products Corrosive Group Standard: HSR No: 2526.
 HSNO Act Controls Regulations 2001 for Mosskill:
 Limit and monitor exposure during the use of the product Make use of suitable equipment for handling the product
 Wear suitable protective clothing while being used
 Limit exposure to the environment Dispose of waste or spilt material only through a recognised expert company
 HS (Harmonised System) Code: 3808.50.49.29 (Disinfectants other)

16. OTHER INFORMATION:

Formulation reference and version number: Version 3.
 This SDS was prepared from data available on 05 July 2018
 This SDS was printed on 5 July 2018.
 This SDS will be reviewed no later than 31 August 2021.

END OF THIS SAFETY DATA SHEET