

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION:

### Kemsol SPA-BAC

An efficient broad spectrum germicide for spa baths.

### CHEMICAL SOLUTIONS LTD

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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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|--|---|
| 6.1E May be harmful if swallowed or skin contact occurs.                       | 6.5B May cause an allergic skin reaction.             |
| 6.3A Causes skin irritation.   | 6.9B May cause damage to body organs.                 |
| 6.4A Causes eye irritation.  | 9.1B Toxic to aquatic life with long lasting effects. |
| 6.5A May cause allergy or asthma symptoms or breathing difficulties if inhaled | 9.3C Harmful to terrestrial vertebrates.              |

Cleaning Products Subsidiary Hazards Group Standard: HSR No: 002530

## 3. COMPOSITION & INFORMATION ON INGREDIENTS:

Didecyldimethyl ammonium chloride & Benzalkonium chloride (CAS# 7173-51-5 & 8001-54-5)	50 g per litre
Solvents	2 – 10 %
Surfactants	< 2 %
Water conditioning agents	< 2 %
Perfume and colouring	< 2 %
Water	> 50 %

## 4. FIRST AID MEASURES:

Contact with eyes:	Rinse eyes with running water holding back eyelids for 5 minutes. If irritation persists seek medical advice.
Contact with skin:	Wash affected area with copious volumes of water. If clothing is contaminated, remove and wash the affected skin area. If irritation or swelling occurs, seek medical advice.
After inhalation:	A non- volatile compound in normal use. But if subject to vapourisation remove the patient from exposure to a restfull location and seek medical advice if symptoms persist. If clothing is contaminated, remove and wash before reuse.
After ingestion:	Do Not Induce Vomiting. Administer 2 glasses glasses of water or milk and seek medical advice if discomfort persist.
Advice to Doctor:	Treat the patient for exposure to material with mild toxic effects. Have this SDS or a product label on hand.

## 5. FIRE FIGHTING MEASURES:

This product is neither flammable nor combustible.  
Drums subject to the heat of a prolonged fire may explode or erupt scattering contents with possibility of enhancing combustion. Where possible remove drums and containers from the path of a fire, or cool with water spray.  
Firefighters may use water spray, jet, fog, foam, CO<sub>2</sub>, 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 (less than 100 litres) should be contained from drainage, diluted with water, neutralised where appropriate, and removed with mops, or absorbed with Mineral Sponge, rags, paper, sand, or soil. It may be possible to drain small spills to town wastewater services where permitted by local authorities.  
Large spills (drums and IBCs) should be contained from local drainage with any suitable bund or barrier. Clean up with absorbant material such as Mineral Sponge, paper, rags, sand or soil. Where a liquid suction cleaning machine is available, it should be used only after neutralising the spilt product.

## 7. HANDLING AND STORAGE:

Store containers in sites where they can be kept cool and dry and away from heat sources. Liquid products in drums and carboys must have secure closures which fit.  
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 an easily seen location on the container.  
After use, always replace lids and caps and return to safe storage as soon as possible.  
There are no specific transport restraints for this material in secure containers.

**8. EXPOSURE CONTROLS & PERSONAL PROTECTION:**

Exposure controls:	No data is available for Kemsol Spa-Bac. No WES is available for its principal components.
Eye protection:	Safety glasses.
Protective clothing:	Chemically impregnable gloves, protective work clothes (a coat, apron or overalls).
Respiratory protection:	Not required for the regular use of this product. If the liquid is being vaporised, a face shield and/or respirator may be required. 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:**

<b>Appearance</b>	Clear green liquid
<b>Odour</b>	Rose flower
<b>pH</b>	9.0 ± 0.5
<b>Flash Point</b>	Not applicable
<b>Ignition Point</b>	Not applicable
<b>Specific Gravity</b>	1.00 ± 0.01
<b>Refractive Index</b>	1.355 ± 0.005      15 Bx
<b>Viscosity</b>	Not applicable
<b>Relative Foam</b>	Low
<b>Solubility in water</b>	Completely in all proportions.

**10. STABILITY AND REACTIVITY:**

Kemsol Spa-Bac 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 for Kemsol Spa-Bac.  
 For Benzalkonium chloride: LD50 Rat 1420 mg/kg    LD50 mouse 150 mg/kg  
 For Didecyltrimethylammonium chloride: LD50 Rat 450 mg/kg

**12. ECOLOGICAL INFORMATION:**

No data is available for Kemsol Spa-Bac.  
 For Benzalkonium chloride: LC50 fathead minnow 0.28 mg/l 96 hr exposure.    EC50 daphnia magna 0.006 mg/l 48 hr exposure.  
 For Didecyltrimethylammonium chloride: LC50 bluegill sunfish 0.32 mg/l 96 hr exposure.    EC50 daphnia magna 0.94 mg/l 48 hr exposure.

**13. DISPOSAL CONSIDERATIONS:**

Minor spilled liquids (after neutralisation) may be disposed of through town wastewater systems where these are authorised for industrial use.  
 Major spills, which have been collected by machine or on absorbants, should be disposed of by waste disposal experts in accordance with local regulations.  
 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 not dangerous for Land Transport in New Zealand

**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 Subsidiary Hazards Group Standard:    HSR No: 2530.  
 HSNO Act Controls Regulations 2001 for Spa Bac:  
 Use buckets to dilute this product before use    Use good well defined measures to make dilutions  
 Label or mark containers used to hold this product    Keep unused product in secure containers to prevent mistaken use

**16. OTHER INFORMATION:**

Formulation reference and version number:    R5 – 119    Version 1.  
 This SDS was prepared from data available on 14 May 2018  
 This SDS was printed on 14 May 2018.  
 This SDS will be reviewed no later than 31 August 2021.

**END OF THIS SAFETY DATA SHEET**