

SAFETY DATA SHEET

PRODUCT AND COMPANY IDENTIFICATION:

Kemsol FOAM FORCE

An enhanced high foaming cleaner and sanitiser.
NZFSA Approved C38 (all animal product except dairy).

CHEMICAL SOLUTIONS LTD

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SDS EFFECTIVE DATE: 5 August 2008

SDS PRINT DATE: 5 December 2008

HAZARD IDENTIFICATION:

Hazardous Substances Act (HSNO) 1996 and Classification Regulations 2001 for the product of this concentration:

- | | |
|---|--|
| 6.1D Harmful if swallowed or skin contact occurs. | 8.3A Causes serious eye damage |
| 8.1A May be corrosive to metals. | 9.1A Very toxic to aquatic life. |
| 8.2B Causes severe skin burn. | 9.3B Toxic to terrestrial vertebrates. |

Cleaning Products Corrosive Group Standard:

HSR No: 2526.

COMPOSITION & INFORMATION ON INGREDIENTS:

Potassium hydroxide (CAS# 1310-58-3)	100 – 250 g per litre
Sodium hypochlorite 15% solution (CAS# 7681-52-9)	300 ml per litre
Free Available Chlorine in a 1% soln	450 ppm when packed
Surfactants	10 – 20 %
Water	> 50 %

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.

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.

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 ICB's) 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.

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.

EXPOSURE CONTROLS & PERSONAL PROTECTION:

Exposure controls:	No data is available for Kemsol Foam Force. WES for chlorine TWA 1.5 mg/cu m. STEL 2.9 mg/cu m.
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.

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Clear colourless liquid
Odour	None
pH	14 ± 0.5 1% solution 12.8
Flash Point	Not applicable
Ignition Point	Not applicable
Specific Gravity	1.226 ± 0.01
Refractive Index	1.385 ± 0.005 32 Bx
Viscosity	Not applicable
Relative Foam	High
Solubility in water	Completely in all proportions

STABILITY AND REACTIVITY:

Kemsol Foam Force 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

TOXICOLOGICAL INFORMATION:

No data is available for Kemsol Foam Force.
 Potassium hydroxide: Toxicity Oral (rat) LD50: 273 mg/kg. Irritation Human skin 50 mg/24hr severe.
 Sodium hypochlorite 15% solution: Oral mouse LD50 5800 mg/kg. Oral rat LD50 8910 mg/kg.

ECOLOGICAL INFORMATION:

No data is available for Kemsol Foam Force.
 Potassium hydroxide: LC50 Gambusia affinis (fresh water fish) 80 mg/l 96 hr.
 Sodium hypochlorite 15% solution: LC50 Culpea pallasi (Pacific herring) 0.065 mg/l 96 hr.
 Sodium hypochlorite 15% solution is rapidly biodegradable and non bioaccumulative.
 Surfactants used in Kemsol Foam Force are classed Readily Biodegradable according to the European Union Detergents Regulations #648/2004.

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

TRANSPORT INFORMATION:

NZ Land Transport Rule: Dangerous Goods Rule 2005	Classified as a Dangerous Goods for Land Transport in New Zealand.
UN Number:	1814
Dangerous Goods Class:	8
Proper shipping name:	Potassium hydroxide solution
Hazchem Group:	2X
Packing Group:	II

NZ REGULATORY INFORMATION:

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OTHER INFORMATION:

Formulation reference and version number: R9 – 72 Version 2.
 This SDS was prepared from data available on 5 August 2008.
 This SDS was printed on 5 December 2008.
 This SDS will be reviewed no later than 5 August 2013.

END OF THIS SAFETY DATA SHEET