

SAFETY DATA SHEET

PRODUCT AND COMPANY IDENTIFICATION:

Kemsol RENEGADE

A non-gelling, heavy duty soil penetrating grill cleaner

CHEMICAL SOLUTIONS LTD

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HAZARD IDENTIFICATION:

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

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

Cleaning Products Corrosive Group Standard:

HSR No: 2526.

COMPOSITION & INFORMATION ON INGREDIENTS:

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| Potassium hydroxide (CAS# 1313-58-3) | 100 – 250 g per litre |
| Builders | 10 – 20 % |
| Anionic surfactants | 2 – 10 % |
| 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 IBC'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:

The information contained in this Safety Data Sheet is provided in good faith and is believed to be correct as at the date hereof. However, it is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. The Proprietor makes no representation as to the accuracy or comprehensiveness of the information. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of the use of the product are therefore assumed by the user and we expressly disclaim all warranties of any kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Appropriate warnings and safe handling procedures should be provided to handlers and users.

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| Exposure controls: | No data is available for Kemsol Renegade. |
| 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:

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| Appearance | Clear liquid |
| Odour | None |
| pH | 14.0 ± 0.5 |
| Flash Point | Not applicable |
| Ignition Point | Not applicable |
| Specific Gravity | 1.156 ± 0.01 |
| Refractive Index | 1.369 ± 0.005 23 Bx |
| Viscosity | Not applicable |
| Relative Foam | Low |
| Solubility in water | Complete in all proportions |

STABILITY AND REACTIVITY:

Kemsol Renegade 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 Renegade.
 Potassium hydroxide: Toxicity Oral (rat) LD50: 273 mg/kg. Irritation Human skin 50 mg/24hr severe.

ECOLOGICAL INFORMATION:

No data is available for Kemsol Renegade.
 Potassium hydroxide: LC50 Gambusia affinis (fresh water fish) 80 mg/l 96 hr.

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:

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| 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 Code: | 2R |
| Packing Group: | III |

NZ REGULATORY INFORMATION:

Hazardous Substances (HSNO) Act 1996 and Classification Regulations 2001 for the product of this concentration:
 Cleaning Products Corrosive Group Standard: HSR No: 2526.
 HSNO Act Controls Regulations 2001 for Renegade:
 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

OTHER INFORMATION:

Formulation reference and version number: Version 2
 This SDS was prepared from data available on 5 August 2013
 This SDS was printed on 12 August 2013.
 This SDS will be reviewed no later than 5 August 2018

END OF THIS SAFETY DATA SHEET