

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION:

### HD PRO

A highly alkaline laundry detergent for industrial use.  
MPI Approved C33 (All animal product except dairy).

### 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](mailto:sales@kemsol.co.nz)  
Website: [www.kemsol.co.nz](http://www.kemsol.co.nz)

EMERGENCY CONTACT: Phone (64-9) 255-5609 Open: 8am - 5pm, Monday to Friday  
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.

- |   |  |
|---|--|
| 6.1D Harmful if swallowed.                    | 8.3A Causes serious eye damage         |
| 8.1A Maybe corrosive to metals.               | 9.1D Maybe harmful to aquatic life.    |
| 8.2B Causes severe skin burns and eye damage. | 9.3C Toxic to terrestrial vertebrates. |

Cleaning Products Corrosive Group Standard:

HSR002526

## 3. COMPOSITION & INFORMATION ON INGREDIENTS:

Builders	> 60 %	Surfactants	< 10 %
Potassium hydroxide (CAS# 1310-58-3)	100 - 200 g per kg		

## 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. Medical Assistance: If discomfort persists, call your nearest Medical Centre or the NZ National Poisons Centre 0800-764-766 for advice. Have this Safety Data Sheet or a product label on hand.

## 5. FIRE FIGHTING MEASURES:

This product is neither flammable nor combustible.  
Packages subject to the heat of a fire may burn scattering contents in the vicinity. If water is used to fight the fire, dissolved powder will flow to the lowest levels. Where possible remove all packaging from the path of a fire while still dry.  
Firefighters must wear SCBA and chemical resistant suits.  
Firefighters should use foam, CO<sub>2</sub>, or dry chemical powder to extinguish a fire in the vicinity. Water jet, spray, or fog on large fires only.

## 6. ACCIDENTAL RELEASE MEASURES:

Spills on floors will produce a slippery surface if moisture is around. Signage preventing foot traffic should be erected where appropriate.  
Spills should be carefully contained from spreading beyond the spill area and swept up with brooms and shovels or a mechanical vacuum cleaner if appropriate for corrosives, and the debris placed in open top-drums which can be closed and removed to landfill.

## 7. HANDLING AND STORAGE:

### Precautions for Safe Handling

Keep out of reach of children. Read label before use. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Keep only in original container. Do not breath dust. Wear protective gloves, protective clothing and eye protection/face protection. Avoid release to the environment.

### Precautions for Safe Storage

Store sealed unopened bags in sites where they can be kept cool and dry, and away from heat sources.  
Handle to prevent damage to packages. Should packaging become damaged, repack into clean and dry bags, or containers of a suitable type to hold the powder and mark the product name carefully on the bag or container.  
After using the product, always close the inner liner plastic bag, then fold over the top of the outer bag and seal closed with adhesive tape.  
After use, return all packages to safe storage as soon as possible.

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

Exposure controls:	No data is available for the product. Potassium hydroxide WES TWA is 2 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.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Appearance</b>	White granular powder
<b>Odour</b>	None
<b>pH</b>	12.6 for a 1% solution
<b>Flash Point</b>	Not applicable
<b>Ignition Point</b>	Not applicable
<b>Specific Gravity</b>	Not applicable
<b>Refractive Index</b>	Not applicable
<b>Relative Foam</b>	Medium
<b>Solubility in water</b>	Completely in all proportions of working strength

**10. STABILITY AND REACTIVITY:**

The product 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 the product.  
 Potassium hydroxide: LD50 rabbit 273 mg/kg.

**12. ECOLOGICAL INFORMATION:**

No data is available for the product.  
 Potassium hydroxide: LC50 Gambusia affinis (fresh water fish) 80 mg/l 96 hr.  
 Surfactants used in the product are classed Readily Biodegradable according to the European Union Detergents Regulations #648/2004.

**13. DISPOSAL CONSIDERATIONS:**

Dispose of in accordance with local regulations by recognised waste disposal experts. Landfill is the preferred method.  
 Spilled powders should be recovered by broom and shovel into open ended drums which can be closed prior to disposal.  
 Used bags should be 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:	1813
Dangerous Goods Class:	8
Proper shipping name:	Potassium hydroxide solid
Hazchem Group:	2W
Packing Group:	II

**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: HSR002526  
 HSNO Act Controls Regulations 2001 for the product:  
 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

**16. OTHER INFORMATION:**

Formulation reference and version number: PRODMAST/04/01/95 or FK-HDPRO20 (FK-VATCLB)  
 This SDS was prepared from data available on 31 August 2019  
 This SDS was printed on 19 August 2021  
 This SDS will be reviewed no later than 31 August 2024

**END OF THIS SAFETY DATA SHEET**