

# SAFETY DATA SHEET

## PRODUCT AND COMPANY IDENTIFICATION:

### Kemsol STAIN-ENZ

Enzyme spotter for laundry stain removal. MPI Approved C33 (all animal product except dairy)

#### CHEMICAL SOLUTIONS LTD

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After Hours: National Poisons & Hazardous Chemical Information Centre: 0800-764-766 (0800-POISON)

## HAZARD IDENTIFICATION:

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

- 3.1C Flammable liquid and vapour.
- 6.3B Causes mild skin irritation.
- 6.4A Causes eye irritation.
- 9.1C Harmful to aquatic life with long lasting effects.

Cleaning Products Flammable Group Standard HSR No: 2528

## COMPOSITION/INFORMATION ON INGREDIENTS:

Isopropanol (CAS# 67-63-0)	10 - 20 %
Dipropylene Glycol Methyl Ether (CAS # 34590-94-8)	2 - 10 %
Protease enzymes	< 2 %
Surfactants	10 - 20 %
Water & nonhazardous ingredients	> 50 %

## FIRST AID MEASURES:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN OR HAIR: Remove immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical advice/attention.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell.  
MEDICAL ASSISTANCE: If discomfort persists, call your nearest Medical Centre or the NZ National Poisons Centre 0800-764-766 for advice. Have this label or Safety Data Sheet on hand.

## FIRE FIGHTING MEASURES:

This product will form flammable mixtures with air when vapourised. Isolate, or avoid, ignition sources (electrical and fire). Containers subject to heat from a fire may explode scattering burning contents. Where possible remove containers from the path of the fire. Otherwise cool with water spray to avoid heating. Firefighters wear SCBA and chemical resistant suits. Foam, CO2, or chemical dry powder to extinguish a local fire. Water spray on large fires only. No water jets.

## ACCIDENTAL RELEASE MEASURES:

Spills on floors will produce a slippery surface. Shut off, or isolate, all possible sources of ignition. Do not allow any spills, original or diluted, to enter wastewater drains. If material does enter, alert the local drainage authorities. Contain minor (less than 100 litres) from local drainage with any suitable bund or barrier. Where possible dilute with water (water soluble products only) and contain the resulting solution. Then clean up with mops or any suitable absorbant inert material such as Mineral Sponge, paper, rags, sand, or soil. Pack absorbed waste material into drums, which can be closed, for waste disposal. Large spills from drums should be contained from drains and diluted with water where possible. Alert the local Fire Brigade. Collect absorbed material in open-top drums which can be closed and sent to landfill.

## HANDLING AND STORAGE:

### Precautions for safe handling:

Read label before use. Keep away from heat, flames and hot surfaces. No smoking. Keep container tightly closed. Ground container and receiving equipment. Use explosion-proof electrical equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, protective clothing and eye protection/face protection. Wash hands thoroughly after handling. Avoid release to the environment.

### Precautions for safe storage:

Store drums and carboys with secure closures, in sites where they can be kept cool and away from heat and ignition sources. Storage in HSNO defined Hazardous Substance Locations and Transit Depots is required for Class 3.1C products where greater than 500 litres is stored in 20 litre carboys and 200 litre drums, and greater than 1500 litres is stored in 5 litre jerries.

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 the product.

- Isopropanol WES-TWA 400ppm. STEL 500 ppm
- Dipropylene Glycol Methyl Ether WES-TWA 100ppm. STEL 150 ppm

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 adequate ventilation is provided in the work space.

**PHYSICAL AND CHEMICAL PROPERTIES:**

<b>Appearance</b>	Pale straw coloured liquid
<b>Odour</b>	Slight solvent
<b>pH</b>	7.5
<b>Flash Point</b>	31° C
<b>Ignition Point</b>	> 400° C
<b>Specific Gravity</b>	1.01
<b>Refractive Index</b>	36 Bx
<b>Viscosity</b>	Not applicable
<b>Foam</b>	Not applicable
<b>Solubility in water</b>	Completely

**STABILITY AND REACTIVITY:**

The product is considered stable in normal storage and use. Evaporation will occur if exposed to air.  
Avoid contamination with oxidising substances.  
Hazardous polymerisation will not occur.  
Combustion will release oxides of carbon and nitrogen.

**TOXICOLOGICAL INFORMATION:**

No data is available for the product. Isopropanol: LD50 Mouse oral 3600 mg/kg. Dipropylene Glycol Methyl Ether LD 50 Rat oral 5135 mg/kg

**ECOLOGICAL INFORMATION:**

No data is available for the product. Isopropanol no data.

**DISPOSAL CONSIDERATIONS:**

Dispose of in accordance with local regulations by recognised waste disposal experts. Incineration is the preferred method.  
Spilled liquids must be absorbed by neutral materials such as Mineral Sponge, paper, rags, sand, or soil and packed in containers which can be sealed and sent to land fill or incineration.  
Large spills will require suctioning into suitable tanks, and if not recoverable, disposed of through recognised waste disposal experts.  
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 Dangerous Goods for Land Transport in New Zealand.
UN Number:	1993
Dangerous Goods Class:	3
Proper Shipping Name:	Flammable liquid NOS (Isopropanol & Dipropylene Glycol Methyl Ether)
Hazchem Group:	3Y
Packing Group:	III

**NZ REGULATORY INFORMATION:**

Hazardous Substances (HSNO) Act 1996 and Classification Regulations 2001 for the product of this concentration:  
Cleaning Products Flammable Group Standard HSR No: 2552.  
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	Do not expose product to any form of ignition source
Limit exposure to the environment	Dispose of waste or spilt material only through a recognised expert company

**OTHER INFORMATION:**

Formulation reference and version number: R8 – 157  
This SDS was prepared from data available on 27 March 2014.  
This SDS was printed on 27 March 2014.  
This SDS will be reviewed no later than 27 March 2019

**END OF THIS SAFETY DATA SHEET**