

## KEMSAN

### Section 1. Identification

**Product name** : KEMSAN  
**Other means of identification** : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.. (Phosphoric acid)  
**Recommended use of the chemical** : Toilet Bowl Cleaner

**Product dilution information** : Not applicable

**Supplier's details** : Ecolab New Zealand  
 2 Daniel Place, Te Rapa, Hamilton, New Zealand  
 Customer Service Phone +64 7 958 2319  
 Fax number +64 7 958 2361

**Emergency telephone number** : 0800 243 622 (0800 CHEMCALL)

**Date of issue** : 20-August-2012

### Section 2. Hazards identification

**Product AS SOLD**  
**HSNO Classification** : 8.1 - CORROSIVE TO METALS - Category A  
 6.1 - ACUTE TOXICITY: ORAL - Category D  
 6.1 - ACUTE TOXICITY: SKIN - Category E  
 8.2 - CORROSIVE TO DERMAL TISSUE - Category C  
 8.3 - CORROSIVE TO OCULAR TISSUE - Category A  
 9.1 - AQUATIC ECOTOXICITY - Category C  
 9.3 - TERRESTRIAL VERTEBRATE ECOTOXICITY - Category C

**Product AT USE DILUTION**

Product is sold ready to use.

**Product AS SOLD**

This material is classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and has been classified according to the Hazardous Substances (Classifications) Regulations 2001.

This material is classified as a dangerous good according to criteria in New Zealand Standard 5433:2007 Transport of Dangerous Goods on Land.

**GHS label elements**

**Product AS SOLD**  
**Signal word** : Danger  
**Hazard statements** : May be corrosive to metals.  
 Harmful if swallowed.  
 May be harmful in contact with skin.  
 Causes severe skin burns and eye damage.  
 Harmful to aquatic life with long lasting effects.  
 Harmful to terrestrial vertebrates.

**Precautionary statements**

**Prevention** : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep only in original container. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

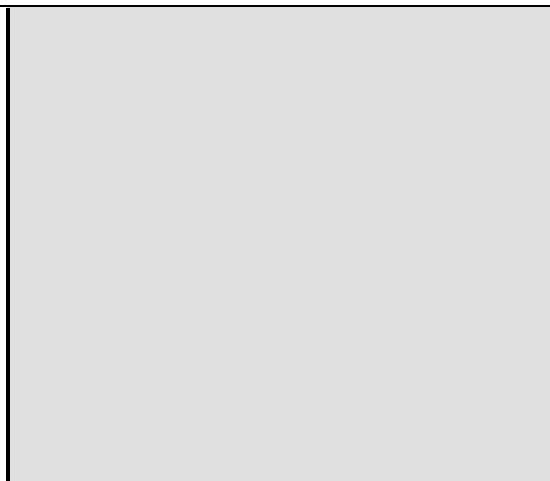
**Response** : Absorb spillage to prevent material damage. Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously

**Product AT USE DILUTION**

Product is sold ready to use.

## Section 2. Hazards identification

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.



- Storage** : Store locked up. Store in corrosive resistant container with a resistant liner.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Symbol** :



## Section 3. Composition/information on ingredients

### Product AS SOLD

Ingredient name	%	CAS number
phosphoric acid	20 - 50	7664-38-2
quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	1 - 5	68424-85-1
alcohols, c12-16, ethoxylated	1 - 5	68551-12-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Product AT USE DILUTION

Ingredient name	%	CAS number
Product is sold ready to use.		

## Section 4. First-aid measures

### Description of necessary first aid measures

	Product AS SOLD	Product AT USE DILUTION
<b>Inhalation</b>	: If inhaled, remove to fresh air. If exposed person is not breathing, give artificial respiration or oxygen applied by trained personnel. Get medical attention immediately.	Product is sold ready to use.
<b>Ingestion</b>	: If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.	
<b>Skin contact</b>	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
<b>Eye contact</b>	: In case of contact, immediately flush eyes with cool running water. Remove contact lenses and continue flushing with plenty of water for at least 15 minutes. Get medical attention immediately.	
<b>Notes to physician</b>	: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
phosphorus oxides  
metal oxide/oxides
- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Personal precautions, protective equipment and emergency procedures</b>	: Immediately contact emergency personnel. Stop leak if without risk. Use suitable protective equipment. Keep unnecessary personnel away. Do not touch or walk through spilt material.	Product is sold ready to use.
<b>Environmental precautions</b>	: May be harmful to the environment if released in large quantities. Do not allow to enter drains or watercourses. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
<b>Methods and materials for containment and cleaning up</b>		
<b>Small spill:</b>	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
<b>Large spill</b>	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.	

## Section 7. Handling and storage

	<b>Product AS SOLD</b>	<b>Product AT USE DILUTION</b>
<b>Precautions for safe handling</b>	: Do not ingest. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Use only with adequate ventilation. Wash thoroughly after handling.	Product is sold ready to use.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Keep out of reach of children. Keep container tightly closed. Keep container in a cool, well-ventilated area.

Store between the following temperatures: 0 and 30°C

## Section 8. Exposure controls/personal protection

### Control parameters

Product AS SOLD

### Occupational exposure limits

Ingredient name	Exposure limits
phosphoric acid	<b>NZ OSH (New Zealand, 12/2010).</b> WES-TWA: 1 mg/m <sup>3</sup> 8 hour(s).

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

### Product AT USE DILUTION

Product is sold ready to use.

### Individual protection measures

**Respiratory protection** : If ventilation is inadequate, use respirator that will protect against organic vapour and dust/mist. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.

**Hand protection** : Use chemical-resistant, impervious gloves. Recommended: Elbow length PVC gloves.

**Eye protection** : Use chemical splash goggles. For continued or severe exposure wear a face shield over the goggles.

**Skin protection** : Use synthetic apron, other protective equipment as necessary to prevent skin contact.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

## Section 9. Physical and chemical properties

**Physical state** : Liquid.

**Colour** : Blue.

**Odour** : disinfectant

**pH** : 0.5 to 2(100%)

**Flash point** : > 100°C  
Product does not support combustion.

**Boiling point** : Not available.

**Vapour pressure** : Not available.

### Product AT USE DILUTION

Product is sold ready to use.

## Section 9. Physical and chemical properties

Vapour density	: Not available.
Relative density	: 1.13 to 1.15
Solubility	: Easily soluble in the following materials: cold water and hot water.

## Section 10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: No specific data.
Incompatible materials	: Extremely reactive or incompatible with the following materials: alkalis. Reactive or incompatible with the following materials: metals. Do not mix with bleach or other chlorinated products - will cause chlorine gas.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on the likely routes of exposure

	<b>Product AS SOLD</b>
Inhalation	: May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.
Ingestion	: Harmful if swallowed. May cause burns to mouth, throat and stomach.
Skin contact	: Causes severe burns. May be harmful in contact with skin.
Eye contact	: Causes serious eye damage.

### Product AT USE DILUTION

Product is sold ready to use.

### Product AS SOLD

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
phosphoric acid	LC50 Inhalation Dusts and mists	Rat	0.962 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	LD50 Dermal	Rabbit	3340 mg/kg	-
	LD50 Oral	Rat	344 mg/kg	-
alcohols, c12-16, ethoxylated	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1100 mg/kg	-

#### Potential chronic health effects

Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

## Section 12. Ecological information

	<b>Product AS SOLD</b>
Ecotoxicity	: This material is harmful to aquatic life with long lasting effects.

### Product AT USE DILUTION

Product is sold ready to use.

### Product AS SOLD

#### Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
phosphoric acid	Acute LC50 75.1 mg/l	Fish	96 hours
	Acute EC50 0.025 mg/l	Daphnia	48 hours
quaternary ammonium compounds, benzyl-c12-c16-alkyldimethyl, chlorides	Acute LC50 0.515 mg/l	Fish	96 hours
	Acute LC50 1.5 mg/l	Fish	96 hours

## Section 12. Ecological information

### Persistence/degradability

Not available.

### Mobility in soil

Soil/water partition coefficient ( $K_{oc}$ ) : Not available.

## Section 13. Disposal considerations

### Disposal methods

#### Product AS SOLD

: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

#### Product AT USE DILUTION

Product is sold ready to use.

## Section 14. Transport information

### Product AS SOLD

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

Regulatory information	UN number	Proper shipping name	Classes	PG*	Additional information
New Zealand Class NZS 5433	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.. (Phosphoric acid)	8	III	<u>Hazchem code</u> 2X  <u>Initial emergency response guide</u> 37
IMDG Class	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid)	8	III	<u>Emergency schedules (EmS)</u> F-A, S-B

PG\* : Packing group

Special Safety Measures and Conditions: During transport, avoid direct sunlight, container damage, corrosion, loading to ensure that all work will be done to ensure the prevention of collapse of cargo.

See shipping documents for specific transportation information.

### Product AT USE DILUTION

Not intended for transport.

## Section 15. Regulatory information

### Product AS SOLD

HSNO Approval Number : HSR002526  
HSNO Group Standard : Cleaning Products (Corrosive) Group Standard 2006

### Product AT USE DILUTION

## Section 15. Regulatory information

<b>HSNO Classification</b>	: 8.1 - CORROSIVE TO METALS - Category A 6.1 - ACUTE TOXICITY: ORAL - Category D 6.1 - ACUTE TOXICITY: SKIN - Category E 8.2 - CORROSIVE TO DERMAL TISSUE - Category C 8.3 - CORROSIVE TO OCULAR TISSUE - Category A 9.1 - AQUATIC ECOTOXICITY - Category C 9.3 - TERRESTRIAL VERTEBRATE ECOTOXICITY - Category C	Product is sold ready to use.
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	: All components are listed or exempted.	
<b>Safety, health and environmental regulations specific for the product</b>	: Hazardous Substance Location trigger quantity : N/A Approved Handler trigger quantity : N/A Secondary Containment trigger quantity : 1000 L Signage trigger quantity : 1000 L Emergency Response Plan trigger quantity: 1000 L The trigger quantities above must take into account any other hazardous substance that is present at that location.	

## Section 16. Other information

### History

**Date of previous issue** : No previous validation.

**Version** : 1

**Prepared by** : Regulatory Affairs

**References** : NZS 5433:2007 Transport of Dangerous Goods on Land  
 Land Transport (Dangerous Goods) Rule 45001:2005  
 Hazardous Substances Regulations 2001:

- Minimum Degrees of Hazard
- Classification
- Classes 1 to 5 Controls
- Classes 6, 8 and 9 Controls
- Packaging Regulations
- Identification Regulations
- Disposal Regulations
- Emergency Management

Health and Safety in Employment Regulations 1995  
 User Guide to the HSNO Thresholds and Classifications  
 OSH Workplace Exposure Standards January 2002  
 NZCIC Approved Code of Practice – Preparation of Safety Data Sheets  
 Signage for premises storing hazardous substances and dangerous goods

🔍 Indicates information that has changed from previously issued version.

### Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, **NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.**