

# Suma® Special L4

Dishmachine detergent for medium hard water



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Suma Special L4 is a concentrated liquid dishmachine detergent specially formulated to provide excellent soil removal in medium hard water conditions. Suma SpecialL4 is especially suited for use in glasswashing machines.

#### Key Properties

Suma Special L4 is a heavy duty alkaline liquid detergent which is suitable for use in a wide range of single and multi-tank dishmachines. It contains a blend of caustic alkali and powerful scale control agents, which will provide excellent removal of fats and dried on food. The powerful scale control agents will also prevent scaling in medium hard water conditions.

#### Benefits

- ▶ Cuts through grease and dried-on food
- ▶ Being highly concentrated gives greater economy in use
- ▶ Prevents scaling of the dishmachine in medium to hard water conditions

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#### Designed For

- ▶ Hospitality
  - ▶ Lodging
  - ▶ Healthcare
  - ▶ Food Service
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# Use Overview

## Directions for Use

Suma Special L4 is normally applied using Diversey automatic dispensing equipment. To ensure perfect cleaning results in soft water condition, dose at a concentration of 1-4 ml/L, depending on local site conditions. Rinse product contacting surfaces with potable water after use. At 2 ml/litre, this will prevent scaling in water containing up to 145 ppm CaCO<sub>3</sub>.

## Product Specifications

Description	
<b>Appearance</b>	Clear yellow liquid
<b>pH (1% solution)</b>	12.7
<b>Relative Density</b>	1.28

## Available Items

Code	Description	Pack Size	Dilution	Availability
7010163	Suma Special L4	2×5L	1-4 ml/L	AU
7010185	Suma Special L4	10L	1-4 ml/L	NZ
7010165	Suma Special L4	20L	1-4 ml/L	AU

These figures are typical values and should not be interpreted as specifications.

## Safe handling and storage information

Full guidance on the handling and disposal of this product is provided in a separate Safety Data Sheet.

Store in original container. Avoid extremes of temperature.

## Product compatibility

Under recommended conditions of use, Suma Special L4 is suitable for use on most materials commonly encountered in the kitchen. Do not however use on alkali sensitive items such as copper, brass, aluminium or rubber.

## Safety Reminder:

Please make sure your employees read and understand the product label and Safety Data Sheet before using this product. The label contains directions for use, and both the label and SDS contain hazard warnings, precautionary statements and first aid procedures. SDSs are available online at [www.diversey.com](http://www.diversey.com) or by calling Toll free: Australia, 1800 647 779 or New Zealand, 0800 803 615.

For additional information, please contact us at:  
Diversey Australia Pty Ltd Toll free: 1800 647 779, Diversey New Zealand Ltd Toll free: 0800 803 615  
[www.diversey.com](http://www.diversey.com)



## SAFETY DATA SHEET

Product Name **SUMA SPECIAL L4**

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** DIVERSEY NEW ZEALAND LTD  
**Address** 3 Diversey Lane, Wiri, Manukau, NEW ZEALAND, 2025  
**Telephone** +64 9 278 2119  
**Fax** +64 9 278 4286  
**Emergency** 0800 243 622  
**Web Site** <http://www.diversey.com>  
**Synonym(s)** ALL PACK SIZES  
**Use(s)** DETERGENT • DISHWASHING DETERGENT  
**SDS Date** 16 Nov 2010

### 2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES [CLASSIFICATION] REGULATIONS 2001

#### HSNO CLASSIFICATION

6.1E Substances that are acutely toxic.  
6.7B Substances that are suspected human carcinogens.  
6.8B Substances that are suspected human or reproductive developmental toxicants.  
8.2B Substances that are corrosive to dermal tissue.  
8.3A Substances that are corrosive to ocular tissue.

#### HAZARD STATEMENT

H303 May be harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H351 Suspected of causing cancer.  
H361 Suspected of damaging fertility or the unborn child.

#### PREVENTION STATEMENT

P102 Keep out of reach of children (applies only where the substance is available to the general public).  
P103 Read label before use (applies only where the substance is available to the general public).  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P281 Use personal protective equipment as required.

#### RESPONSE STATEMENT

P101 If medical advice is needed, have product container or label at hand (applies only where the substance is available to the general public).  
P310 Immediately call a POISON CENTER or doctor/physician.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.



**Product Name** SUMA SPECIAL L4

P321	Specific treatment is advised - see first aid instructions.
P363	Wash contaminated clothing before reuse.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

**STORAGE STATEMENT**

P405 Store locked up.

**DISPOSAL STATEMENT**

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

**CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005; NZS 5433:2007, UN, IMDG OR IATA**

**UN No.** 1824 **DG Class** 8 **Subsidiary Risk(s)** None Allocated

**Packing Group** II **Hazchem Code** 2R

**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

Ingredient	CAS No.	Content
SODIUM HYDROXIDE	1310-73-2	10-30%
TRISODIUM NITRILOTRIACETATE	5064-31-3	10-30%
NON HAZARDOUS INGREDIENTS	Not Available	remainder

**4. FIRST AID MEASURES**

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator where an inhalation risk exists. Apply artificial respiration if not breathing.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact the National Poisons Centre at 0800 764 766 (0800 POISON) or +643 479 7248 or a doctor (at once). If swallowed, do not induce vomiting.
<b>Advice to Doctor</b>	<b>CORROSIVE POISONING TREATMENT:</b> Immediate treatment preferably in a hospital is mandatory. In treating corrosive poisoning, DO NOT INDUCE VOMITING; DO NOT ATTEMPT GASTRIC LAVAGE; and DO NOT ATTEMPT TO NEUTRALISE THE CORROSIVE SUBSTANCE. Vomiting will increase the severity of damage to the oesophagus as the corrosive substance will again come in contact with it. Attempting gastric lavage may result in perforating either the oesophagus or stomach.

Immediately dilute the corrosive substance by having the patient drink milk or water. If the trachea has been damaged tracheostomy may be required. For oesophageal burns begin broad-spectrum antibiotics and corticosteroid therapy. Intravenous fluids will be required if oesophageal or gastric damage prevents ingestion of liquids. Long-range therapy will be directed toward preventing or treating oesophageal scars and strictures.

**5. FIRE FIGHTING MEASURES**

<b>Flammability</b>	Non flammable. May evolve toxic gases if strongly heated. May evolve flammable hydrogen gas in contact with some metals.
<b>Fire and Explosion</b>	Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
<b>Extinguishing</b>	Prevent contamination of drains or waterways.
<b>Hazchem Code</b>	2R

Product Name **SUMA SPECIAL L4**

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage** If spilt (bulk), use personal protective equipment. Contain spillage, then cover / absorb spill with non-combustible absorbant material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Prevent spill entering drains or waterways. CAUTION: Spill site may be slippery.

## 7. STORAGE AND HANDLING

**Storage** Store in a cool, dry, well ventilated area, removed from oxidising agents, acids, active metals, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should be bunded and have appropriate ventilation systems.

**Handling** Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Exposure Stds

Ingredient	Reference	TWA		STEL	
Sodium hydroxide	WES (NZ)	--	2 mg/m3	--	--

**Engineering Controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. In a laboratory situation use under a fume cupboard or other localised extraction ventilation equipment.

**PPE** Wear splash-proof goggles, rubber or PVC gloves and coveralls. When using large quantities or where heavy contamination is likely, wear: a PVC apron and rubber boots. In a laboratory situation, wear: a laboratory coat.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	CLEAR COLOURLESS LIQUID	<b>Solubility (water)</b>	SOLUBLE
<b>Odour</b>	SLIGHT ODOUR	<b>Specific Gravity</b>	1 (Approximately)
<b>pH</b>	12.7	<b>% Volatiles</b>	NOT AVAILABLE
<b>Vapour Pressure</b>	NOT AVAILABLE	<b>Flammability</b>	NON FLAMMABLE
<b>Vapour Density</b>	NOT AVAILABLE	<b>Flash Point</b>	NOT RELEVANT
<b>Boiling Point</b>	100°C (Approximately)	<b>Upper Explosion Limit</b>	NOT RELEVANT
<b>Melting Point</b>	< 0°C	<b>Lower Explosion Limit</b>	NOT RELEVANT
<b>Evaporation Rate</b>	NOT AVAILABLE		

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended conditions of storage.
<b>Conditions to Avoid</b>	Avoid contact with incompatible substances.
<b>Material to Avoid</b>	Incompatible with oxidising agents (eg. hypochlorites), acids (eg. nitric acid) and metals.
<b>Hazardous Decomposition Products</b>	May evolve toxic gases if heated to decomposition.
<b>Polymerization</b>	Polymerization is not expected to occur.



Product Name **SUMA SPECIAL L4**

## 11. TOXICOLOGICAL INFORMATION

<b>Health Hazard Summary</b>	This product has the potential to cause serious adverse health effects. Use safe work practices to avoid eye or skin contact and inhalation. Over exposure may result in severe skin, eye and respiratory burns with possible permanent tissue damage. Upon dilution, the potential for adverse health effects may be reduced.
<b>Eye</b>	Contact may result in irritation, lacrimation, pain, redness, conjunctivitis and corneal burns with possible permanent damage.
<b>Inhalation</b>	Over exposure may result in irritation of the nose and throat, coughing and bronchitis. High level exposure may result in ulceration of the respiratory tract, lung tissue damage, chemical pneumonitis and pulmonary oedema. Effects may be delayed.
<b>Skin</b>	Contact may result in irritation, redness, pain, rash, dermatitis and possible burns. Effects may be delayed.
<b>Ingestion</b>	Ingestion may result in burns to the mouth and throat, nausea, vomiting, abdominal pain and diarrhoea. Ingestion of large quantities may result in ulceration, unconsciousness, convulsions and death.
<b>Toxicity Data</b>	<b>SODIUM HYDROXIDE (1310-73-2)</b> LD50 (Intraperitoneal): 40 mg/kg (mouse) LDLo (Ingestion): 1.57 mg/kg (human) <b>TRISODIUM NITRILOTRIACETATE (5064-31-3)</b> LD50 (Ingestion): 681 mg/kg (mouse) LD50 (Intraperitoneal): 254 mg/kg (rat) TDLo (Ingestion): 8000 mg/kg (mouse)

## 12. ECOLOGICAL INFORMATION

<b>Environment</b>	<b>WATER:</b> If released to waterways, alkaline products may change the pH of the waterway. Fish will die if the pH reaches 10-11 (goldfish 10.9, bluegill 10.5). <b>SOIL:</b> May leach to groundwater with toxic effects on aquatic life as above. <b>ATMOSPHERE:</b> Not expected to reside in the atmosphere. Drops or particles released to atmosphere should be removed by gravity and/or be rained out.
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## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	Neutralise with dilute acid (eg. 3 mol/L hydrochloric acid) or similar. For small amounts absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information.
<b>Legislation</b>	Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION



**CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005; NZS 5433:2007, UN, IMDG OR IATA**

<b>Shipping Name</b>	SODIUM HYDROXIDE SOLUTION				
<b>UN No.</b>	1824	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	II	<b>Hazchem Code</b>	2R		
<b>IATA</b>					
<b>Shipping Name</b>	SODIUM HYDROXIDE SOLUTION				
<b>UN No.</b>	1824	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	II				
<b>IMDG</b>					
<b>Shipping Name</b>	SODIUM HYDROXIDE SOLUTION				
<b>UN No.</b>	1824	<b>DG Class</b>	8	<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	II				

Product Name **SUMA SPECIAL L4**

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## 15. REGULATORY INFORMATION

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**Approval Code** HSR002588  
**Group Name** Industrial and Institutional Cleaning Products (Corrosive, Toxic [6.7]) Group Standard 2006  
**HSNO Controls** Refer to the ERMA website for more information: [www.ermanz.govt.nz](http://www.ermanz.govt.nz)

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## 16. OTHER INFORMATION

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**Additional Information** **EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES:** Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

**WORKPLACE CONTROLS AND PRACTICES:** Unless a less toxic chemical can be substituted for a hazardous substance, **ENGINEERING CONTROLS** are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

**ABBREVIATIONS:**

ACGIH - American Conference of Industrial Hygienists.  
ADG - Australian Dangerous Goods.  
BEI - Biological Exposure Indices(s).  
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.  
CNS - Central Nervous System.  
EC No - European Community Number.  
HSNO - Hazardous Substances and New Organisms.  
IARC - International Agency for Research on Cancer.  
mg/m<sup>3</sup> - Milligrams per Cubic Metre.  
NOS - Not Otherwise Specified.  
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).  
ppm - Parts Per Million.  
RTECS - Registry of Toxic Effects of Chemical Substances.  
STEL - Short Term Exposure Limit.  
SWA - Safe Work Australia.  
TWA - Time Weighted Average.

**HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**Report Status** This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

**Prepared By** Risk Management Technologies  
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**Product Name**     **SUMA SPECIAL L4**

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**SDS Date** 16 Nov 2010

**End of Report**