



## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE PRODUCT

| Product Name/s: | Variant/s      | Manufacturer's Product Codes |               |
|-----------------|----------------|------------------------------|---------------|
|                 |                | Finished Goods Code:         | Formula Code: |
| Domestos        | Regular        | All pack sizes               | 61100013      |
| Domestos        | Mountain Fresh | All pack sizes               | 61100109      |
| Domestos        | Citrus Fresh   | All pack sizes               | 61101101      |

|                                     |   |  |
|-------------------------------------|---|--|
| Recommended Use:                    | Disinfectant Cleaner – meets hospital grade requirements when used as directed                |  |
| Supplier:                           | Unilever Australasia  |  |
| Address:                            | 486 Jackson Street, Petone 5012 New Zealand<br>20 Cambridge Street, Epping NSW 2121 Australia |  |
| Telephone:                          | +61 2 9869 6100 (AUS)   | +64 4 5666949 (NZ)   |
| Facsimile:                          | +61 2 9869 6150 (AUS)   | +64 4 5683396 (NZ)   |
| Consumer Relations Department:      | Mon–Fri 9:00 am – 5:00 pm   |  |
| Telephone:                          | 1 800 888 449 (AUS)   | 0 800 900 029 (NZ)   |
| Website                             | <a href="http://www.unilever.com.au">www.unilever.com.au</a>                                  | <a href="http://www.unilever.co.nz">www.unilever.co.nz</a> |
| Poison Information Centre (24 hour) | 131 126 (AUS)   | 0 800 764 766 (NZ).  |

### 2. HAZARDS IDENTIFICATION

#### STATEMENT OF HAZARDOUS NATURE FOR AUSTRALIA

|   |
|---|
| <b>HAZARDOUS SUBSTANCE</b> According to the Criteria of NOHSC.                                  |
| <b>DANGEROUS GOOD</b> According to the Criteria of the ADG code for Transport by Road and Rail. |

|                   |  |  |
|-------------------|--|--|
| Hazard Category:  | Xi Irritant  |  |
| Risk Phrase(s):   | R36 Irritating to eyes<br>R38 Irritating to skin<br>R31 Contact with acids liberates toxic gas   |  |
| Safety Phrase(s): | S2 Keep out of reach of children   |  |
|                   | S24 Avoid contact with skin  |  |
|                   | S25 Avoid contact with eyes  |  |
|                   | S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice |  |



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name                                    | CAS No.   | Proportion % |
|--|-----------|--------------|
| Sodium Hypochlorite                              | 7681-52-9 | <10%         |
| Sodium Hydroxide                                 | 1310-73-2 | <10%         |
| Lauryl Dimethyl Amine Oxide                      | 1643-20-5 | <10%         |
| Fragrance  | -         | <10%         |
| Other ingredients determined not to be hazardous | -         | To 100%      |

### 4. FIRST AID MEASURES

|                     |   |
|---------------------|---|
| General Advice:     | If poisoning occurs contact a doctor or Poisons Information Centre. Phone 131126 in Australia or 0800 764 766 in New Zealand.   |
| Ingestion:          | Remove product from mouth. Drink 1 or 2 glasses of water (or milk). If large amount swallowed or symptoms develop contact a doctor or Poisons Information Centre. DO NOT induce vomiting. |
| Eye contact:        | Hold eyes open, flood with water for at least 15 minutes and obtain medical attention.  |
| Skin contact:       | Remove contaminated clothing and wash the skin thoroughly with water. If symptoms occur seek medical advice.  |
| Inhalation:         | Remove from source of exposure to fresh air. Obtain medical attention immediately.  |
| Symptoms:           | Symptoms may vary depending on the level of exposure  |
| Notes to physician: | Symptomatic and general supportive treatment should be given.   |
| Treatment:          | Treat Symptomatically   |

### 5. FIREFIGHTING MEASURES

|  |  |
|--|--|
| Suitable extinguishing media:                                  | Extinguish with water, CO <sub>2</sub> , foam or dry chemical.   |
| Specific hazards:  | Not flammable but may give off toxic fumes if involved in a fire.  |
| Hazards from decomposition products:                           | Decomposes when heated, and under fire conditions, and at >35°C may emit toxic Chlorine gas. Reacts with acids and may produce dangerous levels of toxic Chlorine gas. |
| Precautions for fire fighters and special protective equipment | Fire fighters should wear self-contained breathing apparatus for risk of exposure to decomposition products.   |



## 6. ACCIDENTAL RELEASE MEASURES

|               |  |
|---------------|--|
| Small spills: | For spills during personal use, rinse with plenty of water. Normal good housekeeping practices required.   |
| Large spills: | For major spills of bulk product, protective clothing consisting of overalls, safety glasses and gloves should be worn. Rinse or absorb spill, avoiding the formation of fine mists, and collect in suitable containers for disposal. Wash or absorb any remaining liquid. Compressed air must not be used to clean up spills.<br><br>People with a history of respiratory problems must not be employed in the clean up of sizeable spills. |

## 7. HANDLING AND STORAGE

|                           |  |
|---------------------------|--|
| Precautions for Handling: | For domestic use: Avoid skin and eye contact. Wash hands immediately after use.<br><br>When handling bulk product wear safety glasses and protective gloves. Avoid contact with skin. Avoid excessive inhalation. Always wash hands before smoking, eating, drinking and using the toilet. |
| Precautions for Storage:  | An eyewash station should be installed next to where bulk product is made or stored.<br><br>Store in a cool place away from sources of heat.   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|  |  |
|--|--|
| National occupational exposure limits (Australia): | No exposure standard allocated for finished product.<br><br>Sodium Hydroxide: 2mg/m3 TWA Ceiling*<br><br>* A 15 minute exposure which should not be exceeded at any time in a working day.<br><br>Sodium Hypochlorite: No exposure standard is assigned by NOHSC: Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)].<br><br>However the decomposition product Chlorine has an exposure standard:<br><br>Chlorine: 1.0ppm 3mg/m3 TWA |
| Exposure Standards (New Zealand):                  | No exposure standard allocated for finished product.<br><br>Sodium Hydroxide: 2mg/m3 TWA Ceiling*<br><br>* A 15 minute exposure which should not be exceeded at any time in a working day<br><br>Sodium Hypochlorite: No exposure standard is assigned by NZ Dept of Labour<br><br>However the decomposition product Chlorine has an exposure standard:  |

Chlorine: 0.5ppm 1.5mg/m<sup>3</sup> TWA 1ppm 2.9mg/m<sup>3</sup> STEL

Engineering controls:

When handling bulk product, ensure adequate ventilation.

Personal protective equipment:

When handling bulk product wear safety glasses and protective gloves. Avoid prolonged contact with skin. Avoid excessive inhalation. Wash hands before breaks and at end of shifts. Always wash hands before smoking, eating, drinking and using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                          |                                     |
|--------------------------|-------------------------------------|
| Form/Colour/Odour:       | Pale straw coloured viscous liquid. |
| Specific Gravity (20C):  | 1.084                               |
| Boiling Point (C):       | Approx. 100°C                       |
| Melting Range (C):       | Not applicable                      |
| Vapour Pressure (20C):   | Not applicable                      |
| Flash Point (C):         | Not available                       |
| Flammability Limits (%): | Not available                       |
| pH:                      | Approx. 13.2 (neat)                 |

## 10. STABILITY AND REACTIVITY

|                                   |   |
|-----------------------------------|---|
| Stability:                        | Product is stable when stored and used in accordance with manufacturers directions. |
| Conditions to avoid:              | Hot conditions >35°C. Cold conditions <0°C. Never add acid to this product.         |
| Incompatible materials:           | Reducing Agents; Acids; Peroxides; Aluminium, Copper, Zinc and alloys.              |
| Hazardous decomposition products: | Decomposes on heating emitting toxic Chlorine vapour.                               |
| Hazardous reactions:              | Reacts with acids to release toxic and corrosive Chlorine gas.                      |

## 11. TOXICOLOGICAL INFORMATION

### *ACUTE EFFECTS*

|                    |   |
|--------------------|---|
| Ingestion:         | Causes irritation.  |
| Eye contact:       | Causes irritation.  |
| Skin contact:      | Causes irritation.  |
| Inhalation:        | Causes irritation and may cause bronchospasm in chlorine sensitive individuals. |
| Long Term Effects: | Causes irritation.  |



Acute Toxicity/Chronic Toxicity:

Acute oral toxicity assessed to be greater than 2000mg/kg of body weight.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity 1-2mg/L

Persistence & degradability:

Surfactants are readily biodegradable as per AS4351 and are not expected to bioaccumulate

Mobility:

Ingredients are soluble in water and will be highly mobile if they enter the soil.

## 13. DISPOSAL CONSIDERATIONS

Refer to State Land Waste Management Authority. Empty bottles can be rinsed and disposed through council recycling service if this type of packaging is accepted.

## 14. TRANSPORT INFORMATION

UN Number:

1791

Proper shipping name:

HYPOCHLORITE SOLUTION

Class:

8 Corrosive

Subsidiary Risk:

None Allocated

Packing group:

III

Hazchem code:

2X

Emergency Information:

None Allocated

Special Precautions for User:

None

## 15. REGULATORY INFORMATION

### Australia

SUSDP Poisons Schedule Number:

Schedule 5

Prohibition/Licensing Requirements:

There are no applicable prohibitions or notification, licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

Industrial Chemicals (Notifications and Assessment) Act 1989:

All ingredients are listed on or exempt from the Australian inventory of Chemical Substances (AICS).



## **New Zealand**

|                                    |   |
|------------------------------------|---|
| NZ Group Standard:                 | Cleaning Products (Corrosive) Group Standard 2006                                     |
| HSNO Approval No:                  | HSR002526   |
| Approval Handler:                  | Is not required for the Cleaning Products (Corrosive) Group Standard.                 |
| NZ Inventory of Chemicals (NZIoC): | All hazardous chemicals in this product are on the NZ Inventory of Chemicals.         |
| NZ Hazard Classification           | 6.1D (oral), 8.1A, 8.2C, 8.3A, 9.1D   |
| HSNO Regulations:                  | All hazardous ingredients are on the NZ Chemical Classification Information Database. |

## **16. OTHER INFORMATION**

**Date of Revision:** 3 June, 2010

### **Common Acronyms Used**

|         |  |
|---------|--|
| CAS No. | Chemical Abstracts Service Registry Number |
| UN No.  | United Nations Dangerous Goods Number      |

### **New Zealand Acronyms Used**

|      |  |
|------|--|
| HSNO | Hazardous Substances and New Organisms Act and Regulations |
| NZ   | New Zealand  |

### **Australian Acronyms Used**

|        |  |
|--------|--|
| NICNAS | National Industrial Chemicals Notification and Assessment Scheme |
| SUSDP  | The Standard for the Uniform Scheduling of Drugs and Poisons     |

## **DISCLAIMER**

This MSDS summarises to the best of our knowledge the health and safety hazard information on the product and how to safely handle and use the product in the workplace, and should not be construed as guaranteeing specific technical properties. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Since methods and conditions are beyond our control, in inappropriate contexts we do not accept liability for any damages resulting from the use of, or reliance on, this information.