




1. Identification of Substance and Company														
Product Name:	Handy Andy Regular													
Other Names:	None													
HSNO Approval:	Not Applicable (existing substance)													
Product Code:	O4580, 741065, 741072													
UN Number:	Not Applicable													
Hazchem Code:	1[T] (not required for signage)													
Uses:	Disinfectant, Cleaning Agent													
Company Details														
Company:	Clorox New Zealand Ltd													
Address:	151 Marua Rd, Mt Wellington													
Telephone Number:	0800 445 812													
Emergency Telephone Number:	Poisons and Hazardous Chemicals National Information Centre. Urgent information: 0800 764 766. Working hours: 03 479 7248													
2. Hazard Identification														
Hazard Classifications														
<p>This product is a notified toxic substance Hazardous Substances and New Organisms Act (HSNO). *It has not been transferred to HSNO control, but is likely to be classified:</p>		Degree of hazard:												
<p>Classes 6.1E, 6.3B, 6.4A, 6.5B, 9.1D</p>	<p>Harmful by inhalation and if swallowed Contact sensitiser Skin and eye irritant Ecotoxic</p>	<table border="1"> <caption>Degree of Hazard</caption> <thead> <tr> <th>Hazard Category</th> <th>Degree</th> </tr> </thead> <tbody> <tr> <td>Flammability</td> <td>0</td> </tr> <tr> <td>Acute Toxicity</td> <td>1</td> </tr> <tr> <td>Chronic Toxicity</td> <td>1</td> </tr> <tr> <td>Ecotoxicity</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </tbody> </table>	Hazard Category	Degree	Flammability	0	Acute Toxicity	1	Chronic Toxicity	1	Ecotoxicity	1	Reactivity	0
Hazard Category	Degree													
Flammability	0													
Acute Toxicity	1													
Chronic Toxicity	1													
Ecotoxicity	1													
Reactivity	0													
Symbols:														
Other classifications														
Not considered hazardous under other New Zealand legislation. Not a scheduled Poison in Australia.														
Safety and Risk Phrases														
Risk Phrases	R22 R36/37/38 R43 R52	Harmful if swallowed Irritating to eyes, respiratory system and skin May cause sensitisation by skin contact Harmful to aquatic organisms												
Safety Phrases	S2 S23 S24/25 S26  S 46  S29/35	Keep out of reach of children Do not breathe fumes Avoid contact with skin and eyes In case of contact with eyes, rinse immediately with plenty of water and seek medical advice If swallowed, seek medical advice immediately and show container or label. Do not empty into drains; dispose of this material and its container in a safe way												
3. Composition/Information on Ingredients														
Chemical Entity	CAS No	Proportion												
Dipentene	138-86-3	<5%												
Sodium Carbonate	497-19-8	<5%												
Ammonia	7664-41-7	<1%												
Water	7723-18-5	>60%												
Soap	N/A	<5%												
Sodium Lauryl ether sulfate	9004-82-4	<5%												
Sodium tripolyphosphate	7758-29-4	<5%												
Linear alkyl benzenesulfonate	2211-98-5	5-15%												



<b>4. First Aid</b>	
<i>General Information</i>	
You should call the National Poisons Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 0800 764 766 (24 hr emergency service).	
Recommended first aid facilities	Ready access to running water. Accessible eyewash is recommended.
<i>Exposure</i>	
Swallowed:	Do NOT induce vomiting. Contact the National Poisons Centre or a Doctor immediately
Eye contact:	Flush eyes gently with running water. Consult a doctor if irritation develops.
Skin contact:	Remove any contaminated clothing and wash affected area with water. If irritation develops, consult a doctor. Launder Clothing before reuse.
Inhaled:	Remove to fresh air. If symptoms occur, contact the National Poisons Centre or a Doctor.
<i>Advice to Doctor</i>	
No long term/permanent effects likely. Most likely effect is short-term irritation to skin or eyes (acute). Treat symptomatically	
<b>5. Firefighting Measures</b>	
Fire and explosion hazards	There are no specific risks for fire/explosion for this chemical. It is predominantly water and does not burn.
Suitable Extinguishing Substances	Water, foam.
Unsuitable extinguishing substances	None known.
Protective Equipment	Respiratory protection (to protect from smoke inhalation)
Danger caused by material, its combustion products or gases produced	Some fire decomposition products from this product may be harmful if inhaled.
Hazchem Code	1[T] (recommended - note: not a dangerous good)
<b>6. Accidental Release Measures</b>	
Containment	There is no current legal requirement for containment.
Emergency procedures	The container size will generally prevent major spills. For small spill of liquid absorb with sand, vemiculite or similar and dispose of to an approved landfill site. If a large spill occurs: 1. Isolate area (ensure no persons inside spill area); 2. Collect spill – see below; 3. Transfer to container for disposal; 4. Dispose of according to guidelines below (Section 13)
Clean-up method	This product is not considered flammable. Large spills can be collected by absorption onto material such as sand or similar. Larger spills should be prevented from entering storm water drains or waterways. Small spills can be wiped up and placed in a suitable container for waste disposal.
Precautions	Spill site may be slippery. Wear protective footwear, overalls, gloves and safety glasses to clean-up large spills.
<b>7. Handling And Storage</b>	
Storage:	Avoid storage of toxic substances with food. Store out of reach of children. Store in cool, dry, well ventilated area, removed from oxidising agents and acids. Ensure product is adequately labelled, protected from physical damage and sealed when not in use.
Handling:	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements.



8. Exposure Controls/Personal Protection Equipment			
<i>Workplace Exposure Standards</i>			
No specific exposure standard is given for this mixture. Standards for ingredients are listed below.			
NZ Workplace Exposure Standards (OSH, 2002).	Ingredient	WES- TWA	WES- STEL
	Dipentene	Data unavailable	Data unavailable
	Ammonia	25 ppm	Data unavailable
	Sodium carbonate	10mg/m <sup>3</sup>	Data unavailable
	Sodium lauryl ether sulfate	Data unavailable	Data unavailable
	Sodium tripolyphosphate	Data unavailable	Data unavailable
	Linear alkyl benzene sulfonate	Data unavailable	Data unavailable
<i>Engineering Controls</i>			
Ventilation	Ensure adequate natural ventilation.		
<i>Personal Protective Equipment</i>			
Eyes		Concentrated liquid may be discomfoting to eyes – use eye protection if splashes are likely	
Skin		If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or sensitive skin), gloves may be helpful	
Respiratory		Respirator is not required under normal use. Ensure adequate natural ventilation.	
9. Physical And Chemical Properties			
Appearance:	Opaque Off White liquid		
Odour	Characteristic odour		
PH	10.2 to 10.8		
Vapour pressure	18 mmHg at 20°C		
Vapour density	No data		
Boiling point	Approximately 100°C		
Freezing/melting point	< 0°C		
Solubility	Completely soluble in water		
Specific gravity or density	1.066 at 20°C		
Flash point	Not applicable (does not burn)		
Upper and lower flammable limits	Not applicable (does not burn)		
Auto ignition temperature	Not applicable (does not burn)		
10. Stability And Reactivity			
Stability	Stable. Unlikely to react or decompose under normal conditions		
Conditions to be avoided	No special precautions		
Incompatible materials	Oxidising agents (eg. Peroxides), Acids (eg. Sulphuric acid)		
Hazardous decomposition products	Carbon dioxide.		
Hazardous reactions	No specific hazards.		



<b>11. Toxicological Information</b>		
<i>Summary</i>		
Low toxicity – Mild irritant. No adverse health effects are anticipated with normal use of this product.		
<i>Supporting Data</i>		
Oral	Acute	Low toxicity. With large doses ingestion may result in nausea, vomiting and gastrointestinal irritation. LD <sub>50</sub> for the mixture: 4,000 – 5,000 mg kg <sup>-1</sup> (oral) based on LD <sub>50</sub> (oral) rat for linear alkyl benzene sulfonates: 437 mg kg <sup>-1</sup> and LD <sub>50</sub> (oral) rat for ammonia: 350 mg/kg
	Chronic	No chronic effects identified in relation to ingestion of product.
Dermal	Acute	No human data. No data for mixture.
	Chronic	No chronic effects identified specifically in relation to dermal contact with product.
Inhaled	Acute	Low irritant. Over exposure at high levels may result in mucous membrane irritation of the upper respiratory tract and coughing.
	Chronic	No chronic effects identified specifically in relation to inhalation of product.
Eye		This product can be moderately irritating to the eyes. Several ingredients (sodium carbonate, sodium lauryl ether sulfate, linear alkylbenzene sulfonate) are considered eye irritants in concentrated form. Direct contact may result in lacrimation, pain, redness and conjunctivitis.
Skin		Possibly mild irritation of the skin - Sodium Lauryl ether sulfate and linear alkylbenzene sulfonate in concentrated form are considered irritating to the skin (a mild irritant). Prolonged and repeated use may result in slight irritation.
Sensitisation		One of the ingredients (dipentene) shows evidence of sensitisation by skin contact at higher concentration. It is possible that the substance may cause sensitisation by skin contact and therefore will be classed as 6.5B by ERMA.
Mutagenicity		Insufficient evidence of mutagenicity for the mixture or any of its components.
Carcinogenicity		No evidence of carcinogenicity for the mixture. One ingredient (dipentene) is classified by IARC as Group 3: not classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity ma inadequate or limited in animal testing.
Reproductive		Insufficient evidence of reproductive toxicity for the mixture or any of its components
Developmental		Insufficient evidence of developmental toxicity for the mixture or any of its components
Systemic		Insufficient evidence of systemic toxicity for the mixture or any of its components
Aggravation of existing conditions		Some individuals with sensitive skin or conditions such as dermatitis may experience adverse skin reactions, and would be advised to wear gloves. If symptoms persist, discontinue use.
<b>12. Ecological Data</b>		
<i>Summary</i>		
This product is likely to be considered harmful to aquatic organisms.		
<i>Supporting Data</i>		
Aquatic		Ammonia is harmful to aquatic life at low concentration. Toxicity in Fish: 0.25 –8.2 mg/L. It does however biodegrade relatively quickly with a t <sub>1/2</sub> of 2 days. Sodium tripolyphosphate, like other phosphates, causes rapid growth of algae in surface waters, which can starve other organism of oxygen and cause environmental problems. Dipentene (present in this product at less than 5%) is classified under HSNO as 9.1A – ecotoxic: acute toxicity < 1.0mg/L.
Bioaccumulation		Unlikely to be bioaccumulative (degrades in water)
Degradability		Considered rapidly degradable (degrades in water)
Soil		Ammonia is strongly absorbed to the soil.
Terrestrial Vertebrate		No evidence of terrestrial vertebrate toxicity for the mixture.
Terrestrial Invertebrate		No evidence of terrestrial invertebrate toxicity for the mixture or any of its components
Biocidal		The product is not designed as a biocide.
<b>13. Disposal Considerations</b>		
Restrictions		This product should not be disposed of directly to natural waterway.
Disposal method:		For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site. For larger amounts (e.g. if >200L) contact emergency services. Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.
Contaminated Packaging:		Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar

**14. Transport Information**

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). There are no specific restrictions for this product (not a dangerous good).

UN Number	Not applicable	Proper Shipping Name	Not applicable
Class(es)	Not applicable	Packing group	Not applicable
Precautions	Not applicable	HAZCHEM code	1[T] (not a dangerous good)

**15. Regulatory Information**

This product is a "notified toxic substance" – legally existing in New Zealand, but not considered either a toxic substance or a dangerous good.

*Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)*

Not applicable (not transferred)

*Other Legislation*

This product is not scheduled under the Australian SUSDP list of poisons.

**16. Other Information**

*Abbreviations*

CAS Number	Unique Chemical Abstracts Service Registry Number
Controls Matrix	List of default controls linking regulation numbers to Matrix code (e.g., T1, I16).
Degree of hazard	The graph on the front page of the MSDS gives you an immediate idea of the type and severity of hazard that the chemical may pose (as relevant to how you are using that chemical). These ratings are based on our experience and international classifications – a guide to the rating system is available on request.
EC <sub>50</sub>	"Ecotoxic Concentration 50%" – concentration in water which is fatal to 50% of a test population (e.g., daphnia, fish species).
ERMA	Environmental Risk Management Authority
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
HSNO	Hazardous Substances and New Organisms (Act and Regulations)
IARC	International Agency for Research on Cancer
LD <sub>50</sub>	"Lethal Dose 50%" – dose which is fatal to 50% of a test population (usually rats).
LC <sub>50</sub>	"Lethal Concentration 50%" – concentration in air which is fatal to 50% of a test population (usually rats).
MSDS	Material Safety Data Sheet (or Safety Data Sheet)
NICNAS	Australian National Industrial Chemicals Notification and Assessment Scheme
NTP	National Toxicology Program (USA)
OSH	The Occupational Safety and Health Service of the Department of Labour (NZ)
R-Phrase	Risk phrase
SUSDP	Australian Standard for the Uniform Scheduling of Drugs & Poisons
t <sub>1/2</sub>	Half-life – time taken for half of the substance to have decomposed or reacted.
UN Number	United Nations Number
WES	Workplace Exposure Standard

*References*

Data	Unless otherwise stated comes from IUCLID datasheet for the specific chemical
ERMA Transfer Gazettes	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
Controls Matrix	Part of the ERMA New Zealand User Guide to the HSNO Control Regulations
WES 2002	The NZ Workplace Exposure Standards Effective from 2002, published by OSH and available on their web site – <a href="http://www.osh.dol.govt.nz">www.osh.dol.govt.nz</a> .

*Disclaimer*

This MSDS was prepared by HaS Expertise (consultants in hazardous substances, health and safety) and is based on our current state of knowledge, including information obtained from suppliers. The MSDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the MSDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The graph on the first page of the MSDS gives you an immediate idea of the type and severity of hazard that the chemical may pose. These ratings, and the likely HSNO classifications, are based on our experience, ERMA Guidelines, draft classifications and international classifications. To contact MSDS author, email [Suzanne@has-expertise.co.nz](mailto:Suzanne@has-expertise.co.nz) or phone 0064 9 636 7872.