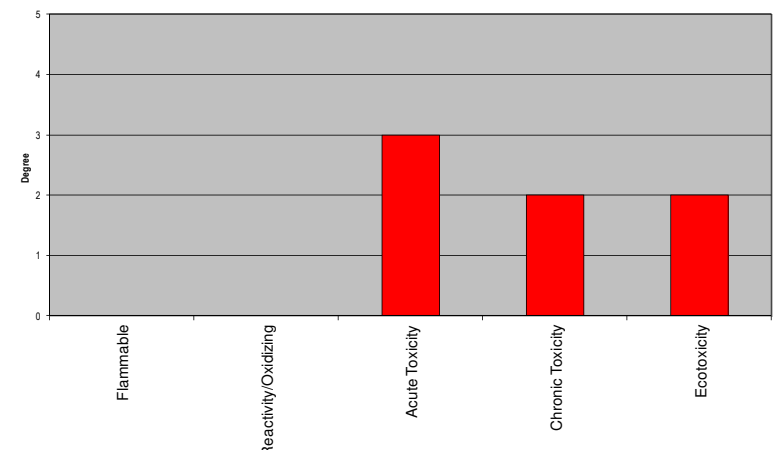



1. Identification of Substance and Company													
Product Name:	Handy Andy Rain Clean												
Other Names:	None												
HSNO Approval:	HSR002530												
	Cleaning Products (Subsidiary Hazard) Group Standard 2017												
Product Code:	O4569 and 741055												
UN Number:	Not Applicable												
Hazchem Code:	NA												
Uses:	Disinfectant, Cleaning Agent												
Company Details													
Company:	Clorox New Zealand Ltd												
Address:	Level8, Building 5, Central Park 660-670 Great South Road Penrose Auckland 1061 New Zealand												
Telephone Number:	0800 108 858												
Emergency Telephone Number:	Poisons and Hazardous Chemicals National Information Centre. Urgent information: 0800 764 766. Working hours: 03 479 7248												
2. Hazard Identification													
Approval													
This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval Cleaning Products (Subsidiary Hazard) Group Standard 2017, HSR002530). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.													
HSNO classes													
This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002530, Cleaning Product (subsidiary hazard) Group Standard 2017), and is classified as follows:													
6.1E (oral) – Harmful if swallowed 6.3A – Skin irritant 8.3A – Eye corrosive 6.5B – Skin sensitiser 9.1D – harmful to the aquatic environment	<p>Degree of hazard:</p>  <table border="1"> <thead> <tr> <th>Property</th> <th>Degree</th> </tr> </thead> <tbody> <tr> <td>Flammable</td> <td>0</td> </tr> <tr> <td>Reactivity/Oxidizing</td> <td>0</td> </tr> <tr> <td>Acute Toxicity</td> <td>3</td> </tr> <tr> <td>Chronic Toxicity</td> <td>2</td> </tr> <tr> <td>Ecotoxicity</td> <td>2</td> </tr> </tbody> </table>	Property	Degree	Flammable	0	Reactivity/Oxidizing	0	Acute Toxicity	3	Chronic Toxicity	2	Ecotoxicity	2
Property	Degree												
Flammable	0												
Reactivity/Oxidizing	0												
Acute Toxicity	3												
Chronic Toxicity	2												
Ecotoxicity	2												
Symbols: DANGER 													
Other classifications													
Not considered hazardous under other New Zealand legislation. Not a scheduled Poison in Australia.													
Hazard Statements													
H303 - May be harmful if swallowed H316 - Causes mild skin irritation. H318 - Causes serious eye damage. H317 - May cause an allergic skin reaction. H402 - Harmful to aquatic life.													
Precautionary Statements													
P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray*. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/eye protection/face protection.													

P312 - Call a POISON CENTRE or doctor/physician if you feel unwell.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE or doctor/physician.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

3. Composition/Information on Ingredients

Chemical Entity	CAS No	Proportion
Water	7723-18-5	>60%
Linear alkyl benzenesulfonate	proprietary	1-10%
Ethoxylated alcohols	proprietary	1-10%
Sodium Carbonate	497-19-8	<5%
Alkalis (hydroxides)	1310-58-3, 1310-73-2	<5%
Sodium tripolyphosphate	7758-29-4	<5%
Benzalkonium chloride	8001-54-5	<1%
Fragrance	mixture	<1%
Ingredients not classed as hazardous under HSNO	proprietary	balance

4. First Aid

General Information

You should call the National Poisons Centre if you feel that you may have been harmed, burned or irritated by this product. The number is 0800 764 766 (24 hr emergency service). If medical advice is needed, have product container or label at hand. Call a POISON CENTER or doctor/physician if you feel unwell.

Recommended first aid facilities Ready access to running water. Accessible eyewash is recommended.

Exposure

Swallowed:	Do NOT induce vomiting. If medical advice is needed, have product container or label at hand. Call a POISON CENTER or doctor/physician if you feel unwell.
Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Inhaled:	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Advice to Doctor


No long term/permanent effects likely. Most likely effect is short-term irritation to skin or eyes (acute). Treat symptomatically.

5. Firefighting Measures

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	NA

6. Accidental Release Measures

Containment	If greater than 1000L is stored, secondary containment is required. Emergency plans to manage any potential spills must be in place. Prevent spillage from spreading or entering soil, waterways or drains.
Emergency procedures	The container size will generally prevent major spills. For small spill of liquid, mop up or collect into labelled container for recycling or disposal. Wash residue down with water. 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. This product may be harmful towards aquatic organisms. Large spills can be collected by absorption onto material such as earth or sand. Small spills can be wiped up and placed in a suitable container for waste disposal.
Precautions	Larger spills (e.g. if >200L) should be prevented from entering storm water drains or waterways. Spill site may be slippery. Wear protective footwear, overalls, gloves and safety glasses to clean-up large spills.

7. Handling and Storage			
Storage:	Avoid storage of toxic substances with food. Store out of reach of children.		
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			
Workplace Exposure Standards			
A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m ³ for respirable particulates and 10mg/m ³ for inhalable particulates when limits have not otherwise been established.			
NZ Workplace Exposure Standards	Ingredient	WES- TWA	WES- STEL
	Sodium carbonate	10mg/m ³	Data unavailable
	Sodium hydroxide	Ceiling: 2mg/m ³	
	Potassium hydroxide	Ceiling: 2mg/m ³	
	no other ingredients listed		
Engineering Controls			
In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.			
Personal Protective Equipment			
General		Personal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where all other means of protection have proven to inadequate.	
Eyes		Concentrated liquid may be discomforting to eyes – use eye protection if working with the concentrate.	
Skin		Avoid repeated or prolonged skin contact. If working with this substance in bulk, wear overalls, rubber boots and impervious gloves. Rubber or nitrile gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.	
Respiratory		Respirator is not required under normal use. Ensure adequate natural ventilation.	
9. Physical and Chemical Properties			
Appearance:	Opaque blue liquid		
Odour	Distinctive 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	None known		
Hazardous decomposition products	Carbon dioxide.		
Hazardous reactions	No specific hazards.		

11. Toxicological Information

Summary

IF SWALLOWED: may cause gastrointestinal discomfort.

IF ON SKIN: may cause skin irritation. Some individuals may experience dermatitis.

IF IN EYES: concentrate may cause burns to the eyes. The diluted mixture maybe irritating to the eyes.

IF INHALED: in most cases no adverse effect is expected. Some sensitised individuals may experience an allergic response, e.g. asthma like symptoms.

Supporting Data

Acute toxicity	Oral:	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is between 2000 and 5000 mg/kg. Data considered includes: Potassium Hydroxide 273 mg/kg (rat), Dobanic (dodecyl benzene sulphonic acid) 404-1470 mg/kg body weight (rat), Sodium Tripolyphosphate 3020mg/kg (mouse), Sodium carbonate 4090 mg/kg (rat), Alcohols, C9-11, ethoxylated: 1400 mg/kg (rat)
	Dermal:	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (dermal, rat) for the mixture is >5000 mg/kg. Data considered includes: Caustic Soda 1348 mg/kg.
	Inhaled:	No evidence of acute inhalation toxicity.
	Eye:	The mixture is considered to be corrosive to the eye, because some of the ingredients present at >3% are considered eye corrosives. (Alcohols, C9-11, ethoxylated, benzalkonium chloride, Dobanic (dodecyl benzene sulphonic acid))
	Skin:	The mixture is considered to be a skin irritant, because some of the ingredients present are considered skin irritants in more concentrated form. (see eye)
Chronic toxicity	Sensitisation:	The mixture is considered to be a contact and respiratory sensitizer, because benzalkonium chloride present in greater than 0.1% is known to be a contact and respiratory sensitizer. (EPA CCID)
	Mutagenicity:	No ingredient present at concentrations > 0.1% is considered a mutagen.
	Carcinogenicity :	No ingredient present at concentrations > 0.1% is considered a carcinogen.
	Reproductive / Developmental:	No ingredient present at concentrations > 0.1% is considered a reproductive or developmental toxicant or have any effects on or via lactation.
Systemic:		No ingredient present at concentrations > 1% is considered a target organ toxicant.
Aggravation of Existing Conditions:		Some individuals with sensitive skin or existing conditions such as dermatitis may experience adverse skin reactions, and would be advised to wear gloves. If symptoms persist, discontinue use.

12. Ecological Data

Summary

Limited data available on the mixture. This product is considered harmful to aquatic organisms.

Supporting Data

Aquatic	Benzalkonium chloride and linear alkyl benzenesulphonates are very ecotoxic to the aquatic environment (LC ₅₀ (96) fish <1 mg/l. Sodium tripolyphosphate, like other phosphates, causes rapid growth of algae in surface waters, which can starve other organism of oxygen and cause environmental problems. This product contains small quantities of these chemicals and is considered mildly ecotoxic in the aquatic environment.
Bioaccumulation	Unlikely to be bioaccumulative (degrades in water)
Degradability	Considered rapidly degradable (degrades in water)
Soil	Not considered toxic in soil (no evidence for any ingredient)
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 designed as a cleaning product.

13. Disposal Considerations

Restrictions	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
Disposal method:	Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
Contaminated Packaging:	Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging.

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007

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	NA

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO), EPA approval: Cleaning Products (Subsidiary Hazard) Group Standard 2017, HSR002530.

All ingredients appear on the NZIoC.

Specific Controls

Key workplace requirements are:	
SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory	An inventory of all hazardous substances must be prepared and maintained.
Packaging	All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency plan	Required if > 1000L is stored.
Certified handler	Not required.
Tracking	Not required.
Bunding & secondary containment	Required if > 1000L is stored.
Signage	Required if > 1000L is stored.
Location compliance certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.
Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.	


Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations

Approval Code	Approval HSR002530 Cleaning Products (Subsidiary Hazard) Group Standard 2017 Controls, EPA. www.epa.govt.nz
CAS Number	Unique Chemical Abstracts Service Registry Number
EC50	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
EPA	Environmental Protection Authority (New Zealand)
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
LEL	Lower Explosive Limit
LD50	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
LC50	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
NZIoC	New Zealand Inventory of Chemicals
MSDS (SDS)	Material Safety Data Sheet (or Safety Data Sheet)

STEL	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
TWA	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
UEL	Upper Explosive Limit
UN Number	United Nations Number
WES	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone.
<i>References</i>	
Data	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID).
Controls	EPA notices, www.epa.govt.nz , Health and Safety at Work (Hazardous Substances) Regulations 2017, www.legislation.govt.nz
WES	The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site – www.worksafe.govt.nz .
Other References:	EU ECHA, ingredients SDS's, ChemIDplus
<i>Review</i>	
Date of review	Reason for review
Nov 2010	Company address and logo, change, risk phrases to hazard phrases .
Oct 2014	review of classification,ERMA to EPA, WorkSafe
September 2019	5 yearly update
<i>Disclaimer</i>	
<p>This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS 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 SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications, are based on our experience, EPA Guidelines and international classifications. This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: (09) 940 30 80.</p>	
 Datachem	