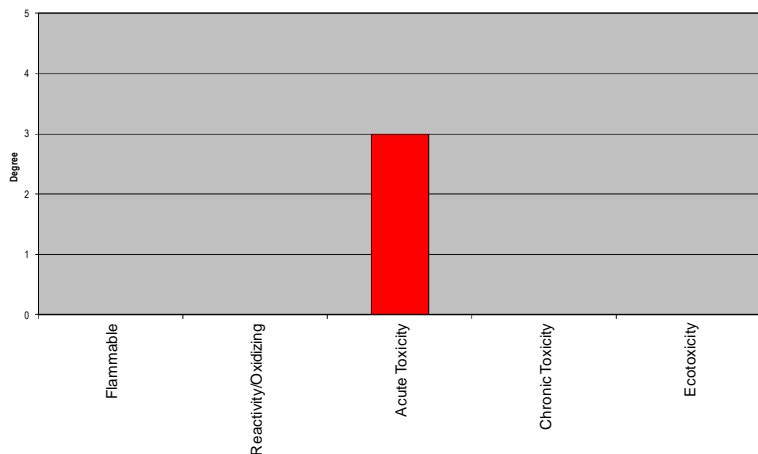




| 1. Identification of Substance and Company  |   |   |
|---|---|---|
| Product Name:   |   | Handy Andy Pine   |
| Other Names:  |   | None  |
| HSNO Approval:  |   | HSR002530   |
| Product Code:   |   | Cleaning Products (Subsidiary Hazard) Group Standard 2006   |
| UN Number:  |   | O4583, 741035   |
| Hazchem Code:   |   | Not Applicable  |
| Uses:   |   | 1[T] (not required for signage)<br>Disinfectant, Cleaning Agent   |
| Company Details   |   |   |
| Company:  |   | Clorox New Zealand Ltd  |
| Address:  |   | Level8, Building 5,<br>Central Park<br>660-670 Great South Road<br>Penrose<br>Auckland 1061<br>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  |   |   |
| Hazard Classifications  |   |   |
| This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002530, Cleaning Product (subsidiary hazard) Group Standard 2006), and is classified as follows: |   | Degree of hazard:   |
| Classes 6.1E,<br>6.3A,<br>8.3A  | harmful if swallowed<br>Skin irritant<br>Eye corrosive                  |                                        |
| Symbols:<br><b>DANGER</b><br>  |   |   |
| Other classifications   |   |   |
| Not considered hazardous under other New Zealand legislation. Not a scheduled Poison in Australia.  |   |   |
| Hazard and Precautionary Statements   |   |   |
| Hazard  | May be harmful if swallowed   |   |
| 6.1E (oral)   | Causes mild skin irritation.  |   |
| 6.3A  | Causes serious eye damage.  |   |
| 8.3A  | Keep out of reach of children.  |   |
| Precautionary   | Read label before use.  |   |
|   | Wear protective gloves/eye protection/face protection.                  |   |
|   | Wash hands thoroughly after handling.                                   |   |
|   | Further precautionary statements can be found in Section 4 – First Aid. |   |
| 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%   |
| 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 poisoned, 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. |   |   |                  |
| 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 occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.   |   |                  |
| Inhaled:  | IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.  |   |                  |
| 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  | 1[T] (recommended - note: not a dangerous good)   |   |                  |
| 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 or ecotoxic. Small spills do not require any special clean up method. Larger spills should be mopped up and collected. Larger spills (e.g. if>200L) should be prevented from entering storm water drains or waterways.   |   |                  |
| Precautions   | 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 New Zealand for this product. There is a general limit of 10mg/m <sup>3</sup> for dusts and mists when limits have not otherwise been established.                               |   |   |                  |
| NZ Workplace Exposure Standards (2013).   | Ingredient  | WES- TWA  | WES- STEL        |
|   | Sodium carbonate  | 10mg/m <sup>3</sup>   | Data unavailable |
|   | Sodium hydroxide  | Ceiling: 2mg/m <sup>3</sup>                                       |                  |
|   | Potassium hydroxide   | Ceiling: 2mg/m <sup>3</sup>                                       |                  |
|   | no other ingredients listed   |   |                  |
| Engineering Controls  |   |   |                  |
| Ventilation   | In industrial situations, concentration values below the WES value must be maintained. 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  |  |  |
|--|--|--|
| 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 green liquid  |  |
| Odour  | Pine 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.   |  |  |
| IF IN EYES: concentrate may cause burns to the eyes. The diluted mixture maybe irritating to the eyes. |  |  |
| IF INHALED: no adverse effect is expected.   |  |  |
| Supporting Data  |  |  |
| Acute toxicity   | Oral:  | Using LD <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (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 <sub>50</sub> 's for ingredients, the calculated LD <sub>50</sub> (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:   | No ingredient present at concentrations >0.1% is considered a sensitiser.  |
|  | 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.   |
| Aggravation of existing conditions   | Some individuals with sensitive skin or conditions such as dermatitis may experience adverse skin reactions, and would be advised to avoid skin contact. If symptoms persist, discontinue use. |  |

## 12. Ecological Data

### Summary

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

### Supporting Data

|                          |   |
|--------------------------|---|
| Aquatic                  | Linear alkylbenzenesulphonate is considered to be ecotoxic. Sodium tripolyphosphate, like other phosphates, causes rapid growth of algae in surface waters, which can starve other organism of oxygen and cause environmental problems. |
| 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              | No evidence of terrestrial vertebrate toxicity for the mixture.   |
| Vertebrate               |   |
| 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.   |

## 13. Disposal Considerations

|                         |  |
|-------------------------|--|
| Restrictions            | This product should not be disposed of directly to natural waterway in concentrated form.  |
| Disposal method:        | No special precautions are required for the disposal of this product. Dispose of residue and solutions that cannot be reused to sewer. If this is not possible dilute with water (at least 5 times as much water) and drain. |
| 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 required to be signposted) |

## 15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002530, Cleaning Product (subsidiary hazard) Group Standard 2006.


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

|                                 |   |
|---------------------------------|---|
| Key workplace requirements are: |   |
| SDS                             | To be available within 10 minutes in workplaces storing any quantity.             |
| Labelling                       | No removal of labels and/or decanting of product into other containers can occur. |
| Emergency plan                  | Required if > 10000L is stored.   |
| Approved handler                | Not required.   |
| Tracking                        | Not required.   |
| Bunding & secondary containment | Required if > 10000L is stored.   |
| Signage                         | Required if > 1000L is stored.  |
| Location test 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, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans.

| 16. Other Information  |   |
|--|---|
| <i>Abbreviations</i>   |   |
| <b>Approval Code</b>   | Approval HSR002530 Cleaning Products (Subsidiary Hazard) Group Standard 2006 Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>  |
| <b>CAS Number</b>  | Unique Chemical Abstracts Service Registry Number   |
| <b>Ceiling</b>   | Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.  |
| <b>Controls Matrix</b>   | List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).  |
| <b>EC50</b>  | Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)   |
| <b>EPA</b>   | Environmental Protection Agency (previously known as ERMA)  |
| <b>HAZCHEM Code</b>  | Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters   |
| <b>HSNO</b>  | Hazardous Substances and New Organisms (Act and Regulations)  |
| <b>IARC</b>  | International Agency for Research on Cancer   |
| <b>LEL</b>   | Lower Explosive Limit   |
| <b>LD<sub>50</sub></b>   | Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).   |
| <b>LC<sub>50</sub></b>   | Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)   |
| <b>MSDS (SDS)</b>  | Material Safety Data Sheet (or Safety Data Sheet)   |
| <b>STEL</b>  | 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   |
| <b>TWA</b>   | Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)  |
| <b>UEL</b>   | Upper Explosive Limit   |
| <b>UN Number</b>   | United Nations Number   |
| <b>WES</b>   | Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed in a work day.  |
| <i>References</i>  |   |
| <b>Data</b>  | Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID) <a href="http://www.epa.govt.nz/hs/compliance/chemicals.html">http://www.epa.govt.nz/hs/compliance/chemicals.html</a> , for specific chemicals. |
| <b>Approval Code</b>   | Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)   |
| <b>Controls Matrix</b>   | Part of the EPA New Zealand User Guide to the HSNO Control Regulations  |
| <b>WES 2013</b>  | The NZ Workplace Exposure Standards Effective from 2013, published by WorkSafe NZ available on their web site – <a href="http://www.worksafe.govt.nz">www.worksafe.govt.nz</a> .  |
| <b>Other References</b>  | Ingredients SDSs, Chemidplus, GESTIS, ECHA ( <a href="http://echa.europa.eu">echa.europa.eu</a> )   |
| <i>Review</i>  |   |
| <b>Date of review</b>  | <b>Reason for review</b>  |
| Nov 2010   | Company address and logo, change, risk phrases to hazard phrases .  |
| Oct 2014   | review of classification, ERMA to EPA, WorkSafe   |
| <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 <a href="mailto:info@datachem.co.nz">info@datachem.co.nz</a> or phone: <b>(09) 940 30 80</b>.</p> |   |
|   |   |