**Safety Data Sheet** CLOROGENE SUPPLIES LTD

Page 1 of 6

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

Classified as a Dangerous Good according to NZS 5433:1999 Transport of Dangerous Goods on Land

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| **1. Identification of the Substance and Supplier** | | | | |
| **Product Name:** | | | **CLORODUX** | |
| **Synonyms:** | | | Cl-O-Na (h20)  Bleach | |
| **Supplier:** | | | CLOROGENE SUPPLIES LTD | |
| **Street Address:** | | | 58 WAIONE STREET  PETONE  WELLINGTON | |
| **Telephone Number:** | | | (04) 568-5530 | |
| **Facsimile:** | | | (04) 568-8660 | |
| **Emergency Phone:** | | | 0800 24362255 (All Hours)0800 CHEMCALL | |
| **2. Hazards Identification** | | | | |
| **Classification:** | Classified as hazardous according to Hazardous Substances (Classification)  Regulations 2001, New Zealand  Not classified as Dangerous Goods for transport according to the NZS 5433:2007 Transport of Dangerous on Land | | | |
| **Risk Phrases** | Classified as 6.4A - A substance that is irritating to the eye Classified as 6.3A - A substance that is irritating to the skin. | | | |
| **Safety Phrases** | S2 Keep out of reach of children.  S24/25 Avoid contact with skin & eyes.  S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice | | | |
| **3. Composition/Information on Ingredients** | | | | |
| **Product Description:** | | Pale yellow water-like liquid. | |
| **Use:** | | Used in the bleaching of paper pulp and textiles, for the purification of water, in medicine, as a swimming pool disinfectant and laundering agent and as a fungicide and germicide. Also used in the manufacture of organic chemicals and as a chemical intermediate. | |
| **Contains:** | | Marketed as sodium hypochlorite solution containing approximately 5% available chlorine. | |
| **Components** | | **CAS Number Proportion** | |
| Sodium Hypochlorite | | 7681-52-9 0-5% | |
| **Sodium Hydroxide** | | 1310-73-2 0-3% | |
| **Ingredients determined** | | Not required Balance to 100% | |

**not to be hazardous**

# First-aid Measures

For advice, contact a Poisons Information Centre (Phone e.g. New Zealand 0 800 764766) or a doctor.

**Inhalation: ·** If inhaled remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.

**Inhalation: D**o not induce vomiting. Wash out mouth with water. If symptoms develop **·** Transport to doctor or hospital without delay.

**Skin Contact: ·** Immediately flush body and clothes with large amounts of water, using safety shower if available.

**·** Quickly remove all contaminated clothing, including footwear.

**·** Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poison Information Centre.

**·** Transport to doctor or hospital.

**Eye Contact: ·** Immediately hold eyelids apart and flush the eye continuously with running water. **·** Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

**·** Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes

**·** Transport to doctor or hospital without delay.

**·** Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**Ingestion: ·** If swallowed, DO NOT induce vomiting.

**·** If vomiting occurs, lean patient forward or place on left side (head down position, if possible) to maintain open airway and prevent aspiration.

**·** Observe the patient carefully.

**·** Never give liquid to a person showing signs of being sleepy or with reduced awareness: i.e. becoming unconscious.

**·** Give water to rinse out mouth, then provide liquid slowly and as much as patient can comfortably drink.

**·** Seek medical advice.

**Notes to Physician: ·** For acute or repeated exposures to hypochlorite solutions:

Release of small amounts of hypochlorous acid and acid gases from the stomach following ingestion, is usually too low to cause damage but may be irritating to mucous membranes. Buffering with antacid may be helpful if discomfort is evident.

**·** Evaluate as potential caustic exposure.

**·** Decontaminate skin and eyes with copious saline irrigation. Check exposed eyes for corneal abrasions with fluorescein staining.

**·** Emesis or lavage and catharsis may be indicated for mild caustic exposure.

**·** Chlorine exposures require evaluation of acid/base and respiratory oedema.

ELLENHORN and BARCELOUX: Medical Toxicology.

# Fire-Fighting Measures

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| **Hazchem Code:** | · None allocated |
| **Specific Hazards:** | · Non-combustible liquid |

**Fire-fighting Advice:** · Alert fire brigade, telling them location and nature of hazard.

· Wear full body protective clothing with breathing apparatus.

· Use fire-fighting procedures suitable for surrounding area.

Equipment should be thoroughly decontaminated after use.

**Suitable Extinguishing Media:** Water spray or fog.

Foam.

Dry chemical powder.

BCF (where regulations permit) Carbon Dioxide.

# Accidental Release Measures

**Spills &** Minor: Clean up all spills immediately.

**Disposal** Avoid breathing vapours and contact with skin and eyes.

Wear protective clothing, impervious gloves and safety glasses. Neutralise with water.

Major: Contain using sand or soil- prevent run off into drains and waterways. Allow controlled access to drain accompanied by suitable neutralising agents such as sodium metabisulphate or sodium thiosulphate and a large excess of water.

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| **7. Handling and Storage** | | | | | |
| **Handling Advice:** | | This material is a Toxic Substance S3 and must be stored, maintained and used in accordance with the relevant regulations. | | | |
| **Storage Advice:** | | Store in a cool well ventilated place out of direct sunlight. Store away from acid, combustible materials and foodstuffs. Keep containers closed at all times and check regularly for leaks. Store in suitable, labelled containers. | | | |
| **Corrosiveness:** | | Not corrosive to aluminium as defined by the NZS 5433: 1999 Transport of Dangerous Goods on Land. | | | |
| **8. Exposure Controls/Personal Protection** | | | | | |
| **National Exposure Standards:** | New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:  Substance TWA STEL  ppm mg/m³ ppm mg/m³  Sodium hydroxide - 2 - - | | |
| **Biological Limit Values** | No Biological limit allocated. | | |
| **Engineering Controls:** | Use with good general ventilation. If mists or vapour are produced local exhaust ventilation should be used. | | |
| **Respiratory Protection:** | If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection will vary according to individual circumstances.  Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of | | |
|  | Respiratory Protective Devices; and ASNZS 1716, Respiratory Protective Devices. | | | |
| **Eye Protection:** | Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform to Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications. | | | |
| **Hand Protection:** | Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance. | | | |
| **Body Protection:** | Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated. It is advisable that a local supplier of personal protective clothing is consulted regarding the choice of material. | | | |
| **9. Physical and Chemical Properties** | | |  | | |
| Physical State: | | | clear liquid | | |
| Colour: | | | yellow | | |
| Odour: | | | not available | | |
| Molecular Formula: | | | Cl-O-Na(H2O) | | |
| Solubility in water: | | | soluble | | |
| Specific Gravity: | | | 1.06 | | |
| Relative Vapour Density (air=1): | | | not available | | |
| Vapour Pressure (20degC): | | | not available | | |
| Flash Point (degC): | | | not applicable | | |
| Auto ignition Temperature (degC): | | | not available | | |
| % Volatile by Weight: | | | not available | | |
| Melting Point: | | | Not applicable | | |
| Boiling Point/Range (degC): | | | 100 deg C | | |
| pH: | | | >11.5 | | |
| **10. Stability and Reactivity** | | |  | | |
| **Chemical Stability:** | | Stable under normal conditions of use | | | |
| **Incompatible materials:** | | Strong oxidising agents and acids. | | | |
| **Products Haz reactions:** | | Hazardous polymerisation will not occur. | | | |
| **Hazardous Decomposition:** | | Thermal decomposition may result in the release of toxic and/or irritating fumes including oxides of sodium and chlorine. | | | |
| **11. Toxicological Information** | | | | | |

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled or over-exposure occurs are:

**Ingestion:** Ingestion of this product may irritate the gastric tract causing nausea and

Vomiting.

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| **Eye Contact:** | Irritating to eyes. On eye contact this product will cause tearing, stinging blurred vision and redness. | |
| **Skin Contact:** | Irritating to skin in redness and itching. | |
| **Inhalation:** | Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. | |
| **Long Term Effects:** | Repeated or prolonged exposure to this material will result in skin irritation and aggravate existing respiratory disorders | |
| **12. Ecotoxilogical Information** | | | |
| **Ecotoxicity:** | | No data is available for this material | |
| **Persistence/Degradability** | | No data is available for this material. | |
| **Mobility:** | | No data is available for this material. | |
| **Environment Protection:** | | Prevent large quantities of this material entering waterways, drains and sewers. | |
| **13. Disposal Considerations** | | | |

Dispose of waste to an approved waste disposal facility.

Disposal of empty containers: Triple rinse then send to drum recycling facility.

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| **14. Transport Information** | | | |
| **Road and Rail Transport** | | Not classified as Dangerous Goods for transport according to the NZS 5433:1999 Transport of Dangerous Goods on Land. | |
| **UN No:** | | None allocated | |
| **Packing Group:** | | none allocated | |
| **Proper Shipping Name:** | | None allocated | |
| **Hazchem Code:** | | None allocated | |
| **Marine Transport UN No:** | | None allocated | |
| **Packing Group:** | | None allocated | |
| **Proper Shipping Name:** | | None allocated | |
| **Air Transport UN No:** | | None allocated | |
| **Packing Group:** | | None allocated | |
| **Proper Shipping Name:** None allocated | | | |
| **15. Regulatory Information** | | | |
| **Poisons Schedule** | New Zealand:S4 | |
| **Hazard Category** | Irritant | |

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| ***16. Other Information*** |

This MSDS summarises to the best of our knowledge at the date of issue, the chemical health and safety hazards for the material and general guidance on how to safely handle the material in the place of use.

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| Reason(s) for Issue: | Clorogene Supplies Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Clorogene Supplies Ltd as per the contact details on page 1.  sodium hypochlorite |
| ***Product Name:*** | Clorodux Bleach |
| ***Contact Person*** | Emergency contact: Rob Barton |

General Manager Clorogene Supplies

Phone 0215685530

Chemcall 0800 764 766 (24 hours)

MSDS issued 20/12/2019

End