

**Parameter****1. Identification of the substance/mixture and supplier**

<b>Product Name</b>	<b>Parameter</b>
<b>Other names</b>	None
<b>Recommended Uses</b>	Food industry cleaner and sanitizer
<b>Supplier</b>	Hygiene Technologies Ltd
<b>Street address</b>	28 Rangitane Road Hastings New Zealand
<b>Freephone Number</b>	0800 732 525
<b>Telephone Number</b>	(06) 876 4111
<b>Facsimile</b>	(06) 878 3802
<b>E-mail</b>	<a href="mailto:info@hygienetech.co.nz">info@hygienetech.co.nz</a>
<b>Emergency Telephone</b>	NZ Fire Service - 111 National Poisons Centre – 0800 764 766 (0800 POISON)

**2. Hazards Identification**

<b>Dangerous Goods</b>	Classified as a dangerous good according to NZS 5433:1999 Transport of Dangerous Goods on Land. Class 8 Corrosive.
<b>Hazardous Substances</b>	Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.
<b>HSNO Classifications</b>	8.1A (Corrosive to metals). 8.2B (Corrosive to skin). 8.3A (Corrosive to Eye). 9.1D (Harmful to the aquatic environment). 9.3C (harmful to terrestrial vertebrates).
<b>Hazard Statements</b>	Harmful if swallowed. May be corrosive to metals. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects. Harmful to terrestrial vertebrates.
<b>Precautionary Statements</b>	Keep out of reach of children. Read label before use. Wear protective gloves, eye protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment.

### 3. Composition/Information on Ingredients

Contents	CAS Number	Proportion
Sodium Hydroxide Liquor - 50% w/w	1310-73-2	10-20%
Sodium Hypochlorite - 14/15% w/w	7681-52-9	3-5%
Non-hazardous ingredients	N/A	1-5%
Water	7732-18-5	To 100%

### 4. First Aid Measures

For advice, contact National Poisons Information Centre (Phone 0800 764 766) or a doctor  
If medical advice is needed, have product container or label at hand. If exposed or if you feel unwell:  
Call a POISON CENTER or doctor/physician.

<b>Swallowed</b>	Do <u>NOT</u> induce vomiting. Rinse mouth with water. Give water to drink to achieve dilution. If symptoms persist call a POISON CENTRE or doctor/physician.
<b>Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist, contact a doctor/physician.
<b>Skin Contact</b>	Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Rinse skin with water/shower.
<b>Inhaled</b>	Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist call a POISON CENTRE or doctor/physician.
<b>Advice to Doctor</b>	Treat symptomatically, can cause corneal burns. Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions). Avoid acidic antidote as this may release toxic chlorine gas.

### 5. Fire-fighting Measures

<b>Specific Hazard</b>	Non-combustible material. The product may decompose in a fire giving off toxic carbon monoxide and possible chlorine gas.
<b>Suitable Extinguishing Media</b>	This product is non-combustible, if material is involved in fire use media appropriate for surrounding fire conditions. Safe to use water fog or water spray, foam and dry agent (carbon dioxide, dry chemical powder).
<b>Fire-fighting advice</b>	Non combustibile, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. If safe to do so, remove containers from path of fire. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk to exposure to products of decomposition.
<b>Hazchem Code</b>	2X.

## 6. Accidental Release Measures

Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Do NOT let product reach drains or waterways. If contamination of sewers or waterways has occurred, advise local emergency services. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Soak up spilled product using absorbent non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material into suitable, clearly labeled, dry, sealable containers and hold for safe disposal. Once pick up is complete, flush spill site with plenty of water to eliminate any residue. Hold contaminated water for disposal by a waste disposal contractor.

## 7. Handling and Storage

### Handling advice

Before use, carefully read the product label. Avoid eye contact with concentrated material. Avoid breathing in vapours, mists and aerosols. Wash hands thoroughly after handling. Wear protective gloves, eye protection and overalls when handling bulk product. Contaminated work clothing should not be allowed out of the workplace after handling bulk product. Avoid release to the environment.

### Storage advice

Always store in original container. Store in a cool, dry well ventilated area, away from direct sunlight, heat sources and food stuffs. Ensure containers are correctly labelled, protected from physical damage, sealed when not in use and stored upright. Check regularly for leaks, spills etc. Keep out of reach of children. Keep containers closed when not in use. Store in original packaging as approved by manufacturer. Do not use empty containers for the storage of foodstuffs.

## 8. Exposure Controls / Personal Protection

### Workplace Exposure Guidelines

No value assigned for this specific material by the NZ Occupational Safety and Health Services (OSH). However, Workplace Exposure Standards for components are:

Sodium hydroxide: WES - TWA: Ceiling 2mg/m<sup>3</sup>

Sodium hypochlorite: WES -TWA: 0.5 ppm, 1.5mg/m<sup>3</sup> (as chlorine)

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

WES - TWA (Ceiling) – A concentration that should not be exceeded during any part of the working day.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable.

These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

### Engineering Controls

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

### Personal Protective Equipment

Wear safety glasses, and use PVC vinyl or rubber gloves. If risk of inhalation exists wear a respirator meeting the requirements of AS/ NZS 1715 and AS/ NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. Physical and Chemical properties

<b>Appearance</b>	Clear, yellow liquid
<b>Odour</b>	Slight chlorine
<b>Solubility</b>	Soluble in water
<b>Specific Gravity</b>	1.19 Approx.
<b>Flash Point (°C)</b>	Not applicable
<b>pH</b>	13.5 (Neat)
<b>Freezing Point</b>	<0 °C
<b>Boiling Point</b>	>100 °C
<b>Vapour Pressure</b>	Not available

## 10. Stability and Reactivity

<b>Stability</b>	Product is stable under directed conditions of use, storage and temperature.
<b>Reactivity</b>	Incompatible with strong mineral acids, will release toxic chlorine gas if mixed.

## 11. Toxicological information

No adverse health effects 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 and overexposure occurs are:

<b>Swallowed</b>	Corrosive to skin. May cause abdominal pain, nausea, diarrhoea, and gastrointestinal irritation.
<b>Eye Contact</b>	Corrosive to eyes, contact can cause corneal burns and result in permanent injury.
<b>Skin Contact</b>	Corrosive to skin - may be severe with sensitive individuals or repeated contact. May result in irritation and redness. Prolonged or repeated contact may cause dermatitis. May cause an allergic skin reaction in individuals known to suffer allergic reactions to chemical products.
<b>Inhaled</b>	Breathing in mists or aerosols may produce respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled by individuals known to suffer allergic reactions to chemical products.
<b>Long Term Effects</b>	No data.
<b>Toxicological Data</b>	No LD50 data available for the product. For component Sodium hydroxide (solid): Dermal LD50 (rabbit): 1350 mg/kg body weight Eye irritation test (rabbit): Corrosive Skin irritation test (rabbit): Highly corrosive For component sodium hypochlorite Oral LD50 (mice): 5800mg/kg Eyes: Moderate irritant (rabbits)

## 12. Ecological information

<b>HSNO classification:</b>	9.1D (harmful to the aquatic environment) 9.3C (Harmful to the terrestrial vertebrates) Avoid contaminating waterways.
<b>Rapidly Degradable:</b>	Yes
<b>Aquatic toxicity</b>	No LC <sub>50</sub> data available for this product.

## 13. Disposal

Recycle wherever possible. Whatever cannot be saved for recovery or recycling should be sent to an approved waste disposal contractor for disposal in an approved waste facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents using an approved waste disposal contractor. Care should be taken to ensure compliance with national and local regulations. This product is NOT for unauthorised disposal by either landfill or via municipal sewers. Not to be discharged to drains, natural streams or rivers.

**Special Precautions:** Empty drums should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Observe all safeguards on label and in this SDS until container is cleaned, reconditioned or destroyed. Decontaminate empty containers with water. Dispose of container and unused contents in accordance with local authority requirements.

## 14. Transport information

### Road and Rail Transport

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

<b>UN No</b>	3266
<b>Class-primary</b>	8
<b>Packing Group</b>	II
<b>Proper Shipping Name</b>	Corrosive Liquids basic inorganic. N.O.S (sodium hydroxide, sodium hypochlorite)
<b>Hazchem Code</b>	2X

### Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

<b>UN No</b>	3266
<b>Class-primary</b>	8
<b>Packing Group</b>	II
<b>Proper Shipping Name</b>	Corrosive Liquids basic inorganic. N.O.S (sodium hydroxide, sodium hypochlorite)

### Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous goods Regulations for transport by air.

<b>UN No</b>	3266
<b>Class-primary</b>	8
<b>Packing Group</b>	II
<b>Proper Shipping Name</b>	Corrosive Liquids basic inorganic. N.O.S (sodium hydroxide, sodium hypochlorite)

## 15. Regulatory Information

<b>ERMA (NZ) Approval Code</b>	HSR 002526
<b>Group Standard</b>	Industrial and institutional Cleaning Products (Corrosive) Group Standard 2006
<b>HSNO Classifications</b> 8.2B (Corrosive to skin)	8.1A (Corrosive to metals)  8.3A (Corrosive to Eye) 9.1D (Harmful to the aquatic environment) 9.3C (harmful to terrestrial vertebrates)
<b>HSNO Controls</b>	<b><u>Trigger quantities for this substance by itself in a “place”:</u></b> <b>Approved Handler:</b> <i>requirement not triggered</i> <b>Secured when unattended:</b> <i>requirement triggered</i> <b>Tracking:</b> <i>requirement not triggered</i> <b>Transit depot requirements:</b> <i>requirement not triggered</i> <b>Hazardous substance location:</b> <i>requirement triggered</i> <b>Hazardous atmosphere zone:</b> <i>requirement not triggered</i> <b>Child Resistant Packaging:</b> <i>requirement if offered for sale in a package that is less than 2.5L (Not applicable if the offer for sale is made in a place of work where children do not have access and the substance is for use in that place of work)</i>
<b>Emergency Management:</b>	
Level 1 information:	requirements are triggered by any amount of this substance
Level 2 documentation:	1 Litre
Level 3 requirements:	250 Litres
Emergency response plan:	250 Litres
Workplace signage:	1000 Litres
Fire extinguishers:	<i>Requirement not triggered</i>

For more information refer to the ERMA website: [www.epa.govt.nz](http://www.epa.govt.nz)

## 16. Other information

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