



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** SODIUM HYPOCHLORITE SOLUTION

**Product Use:** Bleach and steriliser.

Miro's General Cleaning Services P/L trading as ATOMIC CHEMICALS

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**Emergency Telephone Number:** 13 11 26

## 2. HAZARDS IDENTIFICATION

**GHS Classification:** Skin Corrosion/Irritation, Category 1A

**Pictograms:**



**Signal Word:** DANGER

**Hazard Statements:**

H314: Causes severe skin burns and eye damage

AUH031: Contact with acid liberates toxic gas

**Precautionary Statements:**

**Prevention**

P264: Wash hands thoroughly after handling.

P260: Do not breathe dusts or mists.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P301+P330+P331: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310: Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage**

P405: Store locked up.

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

**Disposal**

P501: Dispose of container in accordance with local/regional/national/international regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Ingredients**

<u>Chemical Name:</u>	<u>CAS Number:</u>	<u>Proportion:</u>
Sodium Hypochlorite	7681-52-8	130g/L
Water	7732-18-5	balance

## 4. FIRST AID MEASURES



**Poisons Information Centre: Phone 13 11 26**

**First Aid**

**Swallowed:** Contact a doctor or Poisons Information Centre. Do not induce vomiting. Rinse mouth with water and give glass of water. Never give anything by mouth to an unconscious person.

**Eye:** Immediately hold the eyes open and rinse continuously with plenty of water for at least 15 minutes and contact a doctor or Poisons Information Centre.

**Skin:** Remove any contaminated clothing and immediately wash contaminated skin with plenty of water. If irritation occurs, seek medical attention.

**Inhaled:** Remove affected person to fresh air. Seek medical attention if effects persist.

**First Aid Facilities:** Eye wash station.

**Advice to Doctor:** Treat symptomatically. Do not use acid antidotes in the treatment of sodium hypochlorite poisoning. Sodium thiosulphate immediately reduces hypochlorite to non-toxic products but may produce hydrogen sulphide in contact with acid.

**5. FIRE FIGHTING MEASURES**

**Explosion Hazard:** Sodium Hypochlorite is not combustible.

**Firefighting Procedures:** Can decompose upon heating liberating toxic fumes. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to product of decomposition.

**Extinguishing Media:** Foam, CO<sub>2</sub>, Dry chemical or Water fog.

**6. ACCIDENTAL RELEASE MEASURES**

**Spill Control:** Contain large spills and mop up. Avoid contact to eyes. Use absorbent (soil or sand, sawdust) material to collect. Slippery when spilt. Place in a suitable, labelled container for waste disposal. Do not let spilled or leaking material enter drains and waterways. May be toxic to aquatic life.

**7. HANDLING AND STORAGE**

**Handling and Storage:** Store in a well-ventilated place out of direct sunlight. Store away from acid, combustible materials and foodstuffs. Keep containers closed at all times - check regularly for leaks. Containers must be carefully vented to release any pressure build-up. Transport and store upright with vent at top.

**8. EXPOSURE CONTROL/ PERSONAL PROTECTION**

**Exposure limits:** Sodium Hypochlorite 1ppm ACGIH & NOHSC TWA for decomposition of Chlorine.

**Engineering Controls:** Not required under normal conditions, but local exhaust ventilation should be used to control any air contaminants to within the Exposure Standards.

**Personal Protection:** Eye: Safety glasses should be worn.

Skin: Avoid contact. Wear impervious gloves eg. Nitrile



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical Description/Properties

Appearance/Odour: Pale yellow-green liquid with Chlorine odour.

Boiling Point/Melting Point: 100°C

Vapour Pressure: Not determined

Specific Gravity: 1.2

Flammability Limits: Not determined

Solubility in Water: Complete

Evaporation Rate: Not determined

pH: 11.5 - 13.0

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Reactivity:** Liberates toxic gas if comes into contact with acids and organic solvents.

## 11. TOXICOLOGICAL INFORMATION

### Health Effects: *Acute*

**Swallowed:** Swallowing can result in severe irritation and corrosion of the mucous membranes of the mouth, throat and gastrointestinal tract with pain, inflammation and vomiting. Systematic effects include fall of blood pressure, delirium and coma.

**Eye:** A severe eye irritant. Prolonged contamination of eyes can result in permanent injury. Corrosive to eyes; contact can cause corneal burns.

**Skin:** Contact with skin will result in moderate irritation. Repeated or prolonged skin contact may lead to irritant contact dermatitis or skin burns.

**Inhaled:** Not normally an inhalation risk due to low vapour pressure at ambient temperature. Inhalation of mists or aerosols can produce respiratory irritation followed by pulmonary oedema.

**Health Effects: *Chronic:*** *Individuals with chronic respiratory disorders such as asthma, chronic bronchitis emphysema, etc., may be susceptible to irritating effects.*

## 12. ECOLOGICAL INFORMATION

**Volatile Organic Compounds:** Not determined.

Avoid contaminating waterways.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Method:** No special method. Observe all applicable governmental regulations and local ordinances regarding disposal of hazardous materials.



#### 14. TRANSPORT INFORMATION

**UN Number:** 1791 Caustic Alkali Liquids  
**Hazchem Code:** 2X  
**Transport of Dangerous Goods:** Class 8  
**Dangerous Goods Class and Subsidiary Risk:** PGIII

#### 15. REGULATORY INFORMATION

**Poison Schedule:** S5  
**AICS:** All chemicals listed on the Australian Inventory of Chemical Substances (AICS)

#### 16. OTHER INFORMATION

**LD50 (Acute Oral Toxicity):** 8910mg/kg for a rat based on Sodium Hypochlorite.  
**LD50 (Acute Dermal Toxicity):** Not determined  
**Fish Toxicity:** Not determined  
**Biodegradability:** Not determined.

##### Abbreviations and Definitions of terms used:

<	less than
>	greater than
%	percentage
deg C	Degrees Celsius
g	gram
kg	kilogram
L	Litre
LD50	The dose (swallowed all at once) which is lethal to 50% of a group of test animals.
mg	milligram
miscible	A liquid that mixes homogeneously with another liquid

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