

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Sodium Hypochlorite

**Recommended Use:** Removing Mould, Commercial Laundering, Bleaching, Disinfectant.

**Supplier:** Midland Chemicals  
**ABN:** 91 622 018 986

**Street Address:** 18 Elliott Street  
Midvale  
Western Australia

**Telephone Number:** +61 08 9274 1992

**Facsimile:** +61 08 9250 1710

**Emergency Telephone:** **1 800 033 111 (ALL HOURS)**

## 2. HAZARDS IDENTIFICATION

Hazardous according to the criteria of ASCC [NOHSC:1008(2004)]

**Road and Rail;** Dangerous Goods according to the criteria of the Australian Dangerous Goods Code (ADG Code).

**Risk Phrases:** R22: Harmful if swallowed.  
R31: Contact with acids liberates toxic gas.  
R41: Risk of serious eye damage.

**Safety Phrases:** S2: Keep out of reach of children.  
S3: Keep in a cool place.  
S13: Keep away from food, drink and animal foodstuffs.  
S14: Keep away from acids, and ammonium salts and other Class 8 corrosive substances.  
S23: Do not breathe gas/fumes/vapour/spray  
S24/25: Avoid contact with skin and eyes  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S45: In case of accident or if you feel unwell seek medical advice immediately (show label where possible)  
S46: If swallowed, seek medical advice immediately and show this container or label.

**Poisons Schedule:** 5

**Packaging group number:** III

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Sodium Hypochlorite (NACID)	7681-52-9	12 to 15%	R36 R38
Sodium Hydroxide (NACID)	1310-73-2	1.0%	
Water	7732-18-5	Up to 100%	

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

### Inhalation:

Remove from contaminated area immediately; avoid becoming a casualty. Keep warm and at rest in a comfortable position. If symptoms persist Obtain medical attention.

### Skin Contact:

If spilt on skin or hair, immediately drench with running water and remove contaminated clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble). If symptoms persist seek medical attention.

### Eye Contact:

Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Seek immediate medical attention. Immediately transport to a hospital or doctor.

### Ingestion:

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water, Never give anything by mouth to an unconscious person. If vomiting occurs give further water. Seek immediate medical assistance. Contact a doctor or the Poisons Information Centre Immediately.

### Medical attention and special treatment:

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### Hazards from combustion products:

The substance itself is non-combustible and does not burn. However, when heated to decomposition it emits corrosive and/or toxic fumes. May ignite combustibles. The heat of reaction with combustibles or organic materials may cause ignition. It may be a fire risk in contact with organic materials. Contact with metals may evolve flammable hydrogen gas. The anhydrous salt of sodium hypochlorite is highly explosive. Decomposition on heating may cause containers to rupture or explode.

### Precautions for fire fighters and special protective equipment:

Fire fighters to wear a positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire of all non-emergency personnel. Stay up wind. Keep out of low areas. Eliminate ignition source. Risk of exposure to products of decomposition. Keep containers cool with water spray. Spray to prevent chlorine evolution.

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## **Suitable Extinguishing Media:**

Use water spray type extinguishers. Use media/equipment appropriate to surrounding fire conditions.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Emergency procedures:**

Clear area of all unprotected personnel. Personnel involved in the clean up should wear full protective clothing as described in section 8. Eliminate all sources of ignition. Increase ventilation. Stop leak if safe to do so. Isolate the danger area. Do not let product reach drains or waterways. If product enters sewers or waterways advise local emergency services, or Environmental Protection Authority.

### **Methods and materials for containment and clean up:**

Wear protective equipment to prevent skin and eye contact. Corrosive liquid. Oxidizing material. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material.

Do not get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Use water spray curtain to divert vapour drift. Prevent entry into sewers, basements or confined areas. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid.

## **7. HANDLING AND STORAGE**

This material must be stored, maintained and used in accordance with the relevant regulations.

### **Conditions for safe storage:**

Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalis, reducing agents and combustibles.

### **Precautions for safe handling:**

Avoid skin and eye contact and breathing in vapour, mists and aerosols. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Do not ingest. Do not breathe gas/fumes/ vapour/spray. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, metals, acids.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Occupational Exposure Limits:**

### **Engineering controls:**

Ensure adequate ventilation to maintain exposure levels below standards.

### **Personal Protective Equipment:**

Wear full protective clothing, boots, safety goggles, gloves, and a self contained breathing apparatus. Before breaks and at end of work, wash hands and face thoroughly.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state:** Liquid

**Colour:** clear yellow

**Solubility:** miscible in water

**Specific Gravity:** 1.18

**Relative Vapour Density (air=1):** N/A

**Vapour Pressure (20 °C):** N/A

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**Flash Point (°C):** N/A  
**Flammability Limits (%):** N/A  
**Auto Ignition Temperature (°C):** N/A  
**Boiling Point/Range (°C):** 110°C  
**pH:** 12 @ 1% solution

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Releases chlorine when heated above 35°C.

**Conditions to avoid:** Store in a cool dry place away from oxidising agents, Acids or products of acid generation. Avoid contact with acids, oxidants, sodium nitrate and sodium nitrite. Avoid Heating.

**Incompatible materials:** Incompatible with strong oxidising agents, acids and sources of ignition.

**Hazardous decomposition** Releases chlorine when heated above 35°C. **products:**

**Hazardous reactions:** None known.

## 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:

**Ingestion:** Severe internal irritation due to corrosive effect.

**Eye contact:** Severe eye irritation and burns.

**Skin contact:** Severe irritation and burns.

**Inhalation:** Irritation of the respiratory tract, resulting in coughing and breathing difficulty caused by chlorine fumes.

**Long Term Effects:** No information available for the product.

**Toxicological Data:** Sodium Hypochlorite ORAL (LD50): Acute: 5800 mg/Kg [Mouse]. 8910 mg/Kg [Rat].  
Sodium Hydroxide LD50: Not Available. LC50: Not Available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Toxic to fish and aquatic Organisms.

**Persistence and degradability** possible short term degradation products are not likely. However, long term degradation products may arise.  
The product itself and its products of degradation are not toxic.

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## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; DANGEROUS GOODS.

**UN No:** 1791

**Class-Primary:** 8 corrosive

**Packing Group:** III

**Proper Shipping Name:** Sodium Hypochlorite

**Hazchem Code:** 2X

### Marine Transport

classified as Non- Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON DANGEROUS GOODS.

### Air Transport

classified as Non-Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON DANGEROUS GOODS.

## 15. REGULATORY INFORMATION

**Classification:** Hazardous according to criteria of Safe work Australia; HAZARDOUS SUBSTANCE

**Hazard Category:** Xn: Harmful

**Risk Phrases:** R22: Harmful if swallowed.  
R31: Contact with acids liberates toxic gas.  
R41: Risk of serious eye damage.

**Safety Phrases:** S2: Keep out of reach of children.  
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**Poisons Schedule:** 6

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## 16. OTHER INFORMATION

This material safety data sheet has been prepared by Midland Chemicals

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Midland Chemicals 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 Midland Chemicals at the contact details on page 1.

Midland Chemical's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.