

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Industrial Bleach

Recommended Use: Removing Mould, Commercial Laundering, Bleaching, Disinfectant, Water Purification, Sanitation of swimming pools, and industrial wastes.

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: R31: Contact with acids liberates toxic gas.
R34: causes burns.
R36: Irritating to eyes.
R37: Irritating to respiratory system.
R38: Irritating to skin.

Safety Phrases: S2: Keep out of reach of children.
S3: Keep in a cool place.
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.

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Packaging group number: III

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Sodium Hypochlorite	7681-52-9	12 to 15%	R36, R38
Sodium Hydroxide	1310-73-2	1%	
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. If not breathing apply artificial resuscitation. Experienced person may administer Oxygen if breathing is difficult. Seek medical attention if symptoms persist.

Skin Contact:

If spilled on skin or hair, immediately drench with running water and remove contaminated clothing. Wash affected areas thoroughly with 10% sodium Bicarbonate Solution. 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.

Ingestion:

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give 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 and as exposure to alkalis. Individual with pre-existing lung conditions may have increased susceptibility to the toxicity of excessive exposure and pulmonary oedema. For ingestion victims perform endoscopy on all cases of suspected ingestion. In cases of severe oesophageal corrosion., the use of therapeutic doses of steroid should be considered, General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:

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:

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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.

Suitable Extinguishing Media:

Use extinguishing media appropriate to surrounding fire conditions. Remove containers not involved in the fire from vicinity. Keep containers cool. Spray with water to prevent chlorine evolution.

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. Minimise leak. Collect or mop up excess spillage. Dilute with water. Keep away from Acids, wash down area. Contain spills using sand and earth or absorbent material. Dispose of all contained & neutralised spill residue in accordance with department of environmental protection requirements.

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 and Ammonium salts and other Class 8 corrosive substances. Keep out of sunlight.

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. Keep away from acids and ammonium salts.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

There are no exposure limits available. NOHHC chlorine exposure standard = 3.0mg/m^3 (1ppm)

Engineering controls:

Provide adequate ventilation to ensure exposure is kept to a minimum or below standards.

Personal Protective Equipment:

Wear chemical goggles, safety helmet and face shield, PVC gloves, rubber boots, and PVC jacket and trousers. If risk of inhaling vapour exists, wear full face cartridge respirator with organic vapour acid gas filters to AS 1716 *Respiratory Protective Devices* and used to AS 1715 *selection use and maintenance of respiratory protective devices*, as the minimum protection. Before breaks and at end of work, wash hands and face thoroughly.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Colour: clear green-yellow

Solubility: miscible in water

Specific Gravity: 1.18 at 20°C

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

Vapour Pressure (20 °C): 12.1mm mercury (Hg) at 20°C

Flash Point (°C): N/A

Flammability Limits (%): Not Flammable

Auto Ignition Temperature (°C): N/A

Boiling Point/Range (°C): 100°C to 110°C with decomposition

pH: 12 @ 1% solution

10. STABILITY AND REACTIVITY

Chemical stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Can emit corrosive fumes upon heating.

Conditions to avoid: Store in a cool dry place away from acids and other chemicals.

Incompatible materials: Incompatible with acids.

Hazardous decomposition products: Nature of decomposition products is not known. Releases corrosive fumes upon heating.

Hazardous reactions: Heat causes the product to emit corrosive fumes.

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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 Alkali burns to the mouth, oesophagus and stomach, accompanied by severe burning sensation. Severe scarring of tissue and death may result. Symptoms include bleeding, vomiting, abdominal pain, diarrhoea and fall in blood pressure, damage may appear days after exposure, swallowing large amounts may cause death.

Eye contact: severe irritation and burns. May lead to permanent eye damage.

Skin contact: May cause irritation leading to alkali burns if not removed immediately.

Inhalation: Inhalation of mist, may result in burns and irritation to the nose and upper respiratory tract, resulting in lesions of the nasal septum, pulmonary oedema, pneumonitis and emphysema. Symptoms may include coughing and sore throat. Inhalation of mists at elevated temperatures will increase these symptoms. Prolonged exposure may be harmful.

Long Term Effects: Prolonged or repeated exposure to this product may cause drying of the skin with cracking and irritation that may lead to dermatitis and necrosis. If condition persists, seek further attention. Seek medical advice show this M.S.D.S. to a medical practitioner.

Toxicological Data: Oral/Dermal/Inhalation LD/LC50 values not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Do not contaminate waterways.

Persistence and degradability possible short term degradation products are not likely. However, long term degradation products may arise.

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.

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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 corrossive

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; DANGEROUS GOODS.

UN No: 1791

Class-Primary: 8 corrossive

Packing Group: III

Proper Shipping Name: Sodium Hypochlorite

Hazchem Code: 2X

Air Transport

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

UN No: 1791

Class-Primary: 8 corrossive

Packing Group: III

Proper Shipping Name: Sodium Hypochlorite

Hazchem Code: 2X

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15. REGULATORY INFORMATION

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

Hazard Category: Corrosive

Risk Phrases: R31: Contact with acids liberates toxic gas.
R34: causes burns.
R36: Irritating to eyes.
R37: Irritating to respiratory system.
R38: Irritating to skin.
R41: Risk of serious eye damage.

Safety Phrases: S2: Keep out of reach of children.
S3: Keep in a cool place.
S14: Keep away from acids, and ammonium salts and other Class 8 corrosive substances.
S23: Do not breathe gas/fumes/vapour/spray
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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.