Infosafe No™ VAR4C	Issue Date :November 2024	ISSUED by MILESTON

Product Name **SODIUM HYPOCHLORITE**

Section 1 - Identification

Product Identifier	SODIUM HYPOCHLORITE
Company Name	Milestone Chemicals Pty. Ltd. (ABN 85115166357)
Address	115 Northern Road West Heidelberg VIC 3081 AUSTRALIA
Telephone/Fax Number	Tel: (03) 9450 4555 Fax: (03) 9457 5518
Emergency Phone Number	(03) 9450 4555 Mon-Fri 8am - 6pm
Recommended use of the chemical and restrictions on use	Pool chlorine.

Section 2 - Hazard(s) Identification

GHS Classification of the Substance/Mixture	Corrosive to metals: Category 1 Eye damage/irritation: Category 1 Skin corrosion/irritation: Category 1B
Signal Word	DANGER
Hazard Statement (s)	AUH031 Contact with acids liberates toxic gas. H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
Pictogram (s)	Corrosion

Precautionary Statement – Prevention	P234 Keep only in original packaging. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling. P280(f) Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement – Response	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.
Precautionary Statement – Storage	P405 Store locked up.
Precautionary Statement – Disposal	P501 Dispose of contents/container to authorised chemical landfill
Precautionary Statement – General	P102 Keep out of reach of children. P103 Read carefully and follow all instructions.

Section 3 - Composition and Information on Ingredients

Ingredients	Name	CAS	Proportion
	Sodium Hypochlorite 12.5%	7681-52-9	100%

Section 4 - First Aid Measures

Inhalation	Remove from exposure, rest and keep warm. In severe cases, obtain medical

	attention. Apply artificial respiration if not breathing.
Ingestion	Immediately rinse mouth with water. Do NOT induce vomiting. Slowly give water to drink. Seek medical assistance.
Skin	If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If swelling, redness, blistering, or irritation occurs seek medical advice.
Eye	If in eyes, hold eyes upen, flood with water for at least 15 minutes and see a doctor.
First Aid Facilities	Eye wash station and normal washroom facilities.
Advice to Doctor	Product is a solution of sodium hypochlorite. If swallowed, may lead to fall in blood pressure. Treat with antacids to neutralise hypochlorous acid formed in the stomach, then as for alkaline materials. Onset of pulmonary oedema, following inhalation overexposure, may be delayed. Treat symptomatically. Contact Poisons Information Centre.

Section 5 - Firefighting Measures

Suitable Extinguishing Media	Use extinguishing media appropriate to surrounding fire.
Hazards from Combustion Products	Chlorine, water vapour, sodium hydroxide, sodium carbonate, sodium chloride.
Specific Methods	In case of small fire/explosion use water. In case of major emergency use PPE: breathing apparatus and protective gloves.
Specific Hazards Arising from the Chemical	Contact with combustible material may cause fire. May form explosive products with primary aliphatic or aromatic amines, methanol and with nitrites. Contact with acids will generate chlorine, a toxic and corrosive gas. May react vigorously or violently with oxidising agents, reducing agents and metal salts.
Hazchem Code	2X
Other Information	Avoid contact with coloured fabric as Chlorine may bleach colour out. May give off dangerous gas if mixed with other products.

Section 6 - Accidental Release Measures

Spills & Disposal	Disposal of small spillages only. For large spillages liquids should be contained using sand or earth, and both liquids and solids then transferred to salvage containers. Residues should be treated as for small spillages. CAUTION: Before dealing with spillage take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on inert absorbent, transfer to sealed container and arrange removal by disposals company. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

Section 7 - Handling and Storage

Conditions for safe storage, including any incompatibilities	Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bunded dangerous goods store. Store in original container. Never store in unlined metal containers. Keep container tightly closed. Keep out of direct sunlight. Keep away from combustible materials. Keep away from acids. Keep away from metals and their salts. Keep away from aliphatic and aromatic amines. Keep away from methanol and nitrites. Keep away from oxidising and reducing agents. Prevent vapours from collecting in enclosed spaces. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

Section 8 - Exposure Controls and Personal Protection

Engineering Controls	Prevent direct contact with metals. Local mechanical exhaust/extraction usually required to keep airborne contamination as low as possible.
Personal Protective Equipment	Prevent contact with the eyes. Avoid contact with the skin. Avoid breathing the vapours. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:- Self contained breathing apparatus

Face shield, goggles or safety glasses
Gloves, rubber or plastic
Plastic apron, sleeves and boots
Impervious overalls.

Always maintain a high level of personal hygiene when using cleaning chemicals. That is wash hands before eating, drinking, smoking or using the toilet.

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Clear yellow liquid
Colour	Clear pale yellow.
Odour	Strong smell of chlorine.
Boiling Point	100C
Solubility in Water	Miscible with water in all proportions.
Specific Gravity	1.2
pH	12.0 - 13.0
Vapour Pressure	Not available.
Flash Point	>61C
Flammability	Not flammable. Moderate oxidiser. Contact with combustible materials may cause fire.
Other Information	Oxidiser. Contact with combustible material may cause fire. Contact with acids will generate chlorine, a toxic and corrosive gas. May react violently with reducing agents. Can react with primary aliphatic and aromatic amines, methanol and nitrites to give explosive products. May react vigorously with oxidising agents. Incompatible with most metals. Will decompose on standing, generating chlorine. Decomposition will be accelerated by contamination and by exposure to sun light. May react vigorously with peroxides and metal salts. On long storage, may generate pressure inside sealed containers. Open cautiously.

Section 10 - Stability and Reactivity

Possibility of Hazardous Reactions	My form toxic oxides of Chlorine if involved in a fire.
Conditions to Avoid	Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Acids, oxidizing agents, metals
Hazardous Decomposition Products	Decomposes on heating to emit toxic fumes. Heating can cause expansion of containers or decomposition leading to violent rupture of containers. Reacts vigorously with acids to produce dangerous levels of gaseous chlorine. Reacts with amines, ammonium salts, aziridine, methanol, phenylacetonitrile, metal salts, peroxides and reducing agents.

Section 11 - Toxicological Information

Acute Toxicity - Oral	Acute oral toxicity (LD50): 5800 mg/kg [Mouse]
Acute Toxicity - Inhalation	LCLo : Chlorine 2,530 mg/m3/30 minutes human
Ingestion	Will cause severe irritation and corrosion of the mouth, throat and gastrointestinal system. May cause pain and vomiting. May cause fall in blood pressure. Risk of delirium, coma and death.
Inhalation	Inhalation of chlorine gas at 1 ppm will irritate the mouth, nose and throat. Above 1.3 ppm, vapours may cause coughing and difficulty breathing. At higher levels, risk of throat muscle spasm, leading to death by suffocation. Risk of delayed onset of pulmonary oedema (fluid in the lungs).
Skin	Short contact may cause irritation. On longer contact risk of chemical burns.

Eye	Severe irritant. Risk of permanent damage and blindness.
Chronic Effects	Repeated skin contact may lead to dermatitis or 'chloracne'. Repeated, low level exposure to chlorine vapours may cause corrosion of the teeth.

Section 12 - Ecological Information

Ecotoxicity	Toxic to fish and aquatic organisms.
Mobility	Readily dilutes with water.
Environmental Protection	Avoid contaminating waterways, drains, sewers, or ground.

Section 13 - Disposal Considerations

Waste Disposal	Do not discharge effluent containing this product into laes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in a permit. Do not discharge effluent containing this product without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Reduce with agents such as bisulfites or ferrous salt solutions. Some heat will be produced. Keep on alkaline side and dilute with copious amounts of water. The main end-product is salt water. Waste must be disposed of in accordance with federal, state and local environmental control regulations. Refer to Land Waste Management Authority in your State.

Section 14 - Transport Information

Transport Information	Classified as a Class 8 Dangerous Good. Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids and Class 7. Store away from acids.
ADG UN Number	1791
ADG Proper Shipping Name	HYPOCHLORITE SOLUTION
ADG Transport Hazard Class	8
ADG Packing Group	III
Hazchem Code	2X
EPG Number	8A1
IERG Number	37

Section 15 - Regulatory Information

Poisons Schedule	S5
Australia (AICS/AIIC)	All components listed.

Section 16 - Any Other Relevant Information

Date of Preparation	3/11/2024
Literature References	Preparation of Safety Data Sheets for hazardous Chemicals Code of Practice Standard for the Uniform Scheduling of Medicines and Poisons Australian Code for the Transport of Dangerous Goods by Road & Rail Globally Harmonised System of classification and labelling of chemicals GHS7
Signature of Preparer/Data Service	Technical manager Tel: (03) 9450 4555
Technical Contact Numbers	Emergency Advice All Hours: Chief Chemist Tel: (03) 9450 4555 Mon-Fri 8am - 6pm Poisons Information Centre: 13 11 26 - 24hrs
Other Information	This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how

to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this SDS carefully, and if in doubt ring the Contact Point Number given below.

...End Of MSDS...