Material Safety Data Sheet

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Product Name: **SODIUM HYPOCHLORITE 12.5%**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	SODIUM HYPOCHLORITE 12.5%
Product Code	HLBC25H
Company Name	Septone Products Pty Ltd (ABN 50 009 745 537)
Address	44 Aquarium Avenue HEMMANT QLD 4174
Emergency Tel.	Business hours only: 1800 000 945 or New Zealand Poisons Information Centre 0800 764 766
Telephone/Fax Number	Tel: (07) 3390 5044 Fax: (07) 3390 5041
Email	general@septone.com.au (For NZ customers other than in emergencies. Your supplier can be contacted)
Recommended Use	Concentrated sanitising and bleaching agent.
Other Information	The information herein is, to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions of application are beyond our control, Septone does not accept liability for any damages resulting from the use of, or reliance on, this information, in inappropriate contexts.

2. HAZARDS IDENTIFICATION

Hazard Classification	Classified as hazardous HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s)	Classified as hazardous R31 Contact with acids liberates toxic gas. R34 Causes burns. R50 Very toxic to aquatic organisms.
Safety Phrase (s)	S1/2 Keep locked up and out of reach of children. S28 After contact with skin, wash immediately with plenty of S45 In case of accident or if you feel unwell seek medical advice immediately S50 Do not mix with acids S61 Avoid release to the environment. Refer to special instructions/safety data sheet.
Sensitization of	This product is not considered to be a skin or respiratory

Product sensitiser.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on Composition Sodium Hypochlorite 12.5% contains a minimum of 125 g/L (12.5% w/v) available chlorine as Sodium Hypochlorite, when packed.

Ingredients

Name	CAS	Proportion	Hazard	R Phrase
Water	7732-18-5	60-100 %		
Ingredients determined not to be hazardous	-	10-30 %		
Sodium hypochlorite	7681-52-9	10-30 %	C	R31, R34

4. FIRST AID MEASURES

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

Inhalation Rescuers should wear respiratory protection. Remove the victim from the source of exposure. If the victim is not breathing, apply artificial resuscitation. For all but the most minor symptoms, seek medical attention.

Ingestion Do NOT induce vomiting. Give water to drink. Seek immediate medical attention.

Skin Remove contaminated clothing and launder before re-use. Wash affected skin thoroughly with soap and water. If swelling, blistering, redness or irritation occurs, seek medical attention.

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.

First Aid Facilities A safety shower and an eye irrigation facility should be provided. This Material Safety Data Sheet should be provided to the attending medical doctor.

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

Suitable Extinguishing Media Firefighters should fight any fires with dry chemical, carbon dioxide, vaporising liquid or foam extinguishers or water delivered in a fine spray or fog if available.

Special Protective Equipment for fire fighters If this product is involved in a fire, fire-fighters should wear full protective clothing including self contained breathing apparatus (SCBA).

Specific Hazards None known.

Hazchem Code 2X

Other Information This product is not flammable under the conditions of use and does not support combustion.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Personnel involved in cleaning up any spills are to wear the appropriate protective equipment (gloves, goggles or a face shield and an acid resistant vapour respirator). Cordon off the spillage area. Isolate the source of the spillage or leak. For large spillages, contain the spillage using a suitable non-flammable absorbent material such as sand or diatomaceous earth, and then neutralise slowly using either sodium metabisulphite or sodium thiosulphate and a large excess of water. The neutralised material may then be allowed controlled access to the effluent system. For small spillages, wash the product to the drain with a large excess of water.

7. HANDLING AND STORAGE

Handling and Storage	Store in dangerous goods approved plastic containers in a clean, dry, cool, well ventilated place away from foodstuffs, other oxidising agents and acids. Store and transport in an upright container. Containers must be carefully vented to release any pressure build-up. Must be stored in accordance with AS3780.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No value assigned by NOHSC for sodium hypochlorite.
Engineering Controls	Natural ventilation should be adequate under normal conditions of use. Keep containers closed when not in use.
Personal Protective Equipment	Wear PVC gloves and chemical goggles and/or a face shield. An acid resistant respirator to AS 1716 is recommended if spray mists are produced during use. It is recommended that a shirt with long sleeves and long trousers be worn. Always wash skin and clothing after using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear pale yellow mobile liquid, distinctive hypochlorite odour.
Boiling Point	100°C
Solubility in Water	Complete
Specific Gravity	1.140 @ 25°C
pH Value	13.0
Evaporation Rate	As for Water
Volatile Component	80% w/w
Flash Point	This product will not flash and does not support combustion.
Flammability	This product is not flammable under the conditions of use and does not support combustion.

10. STABILITY AND REACTIVITY

Chemical Stability	Decomposes on exposure to heat or light.
Incompatible Materials	Strong acids, metals, metal salts, peroxides and other oxidising agents and reducing agents.
Hazardous Decomposition Products	Upon heating or upon contact with acids, this product may emit toxic fumes, including chlorine gas which has a TLV of 1 ppm; 3 mg/m^3 - peak exposure. Source: NOHSC (under review).
Hazardous Polymerization	The product will not polymerise.

11. TOXICOLOGICAL INFORMATION

Inhalation	Spray mists are irritating to the nose, throat and respiratory tract.
Ingestion	Causes severe irritation and corrosion to the mouth, throat and digestive tract with pain, inflammation and vomiting. Systemic effects include fall in blood pressure, delirium and coma.
Skin	May cause chemical burns. Moderate skin irritant. Repeated or prolonged skin contact may lead to dermatitis.
Eye	Severe eye irritant. May cause permanent damage to the eyes.
Chronic Effects	No known chronic effects.
Reproductive Toxicity	This product is not considered to be toxic to the unborn foetus.
Mutagenicity	This product is not considered to be a mutagen.
Carcinogenicity	This product is not considered to be a carcinogen.

12. ECOLOGICAL INFORMATION

Short Summary of Assessment of Environmental Impact	At normal use levels and following standard trade waste post treatment, this product is expected to exhibit low toxicity towards aquatic organisms. However, the undiluted material should be prevented from entering waterways. Sodium hypochlorite is not stable in water or in soil in the presence of organic material, and is rapidly decomposed by heat and light. Due to the rapid reactions with other substances, the inherent toxicity of hypochlorite, with EC/LC50 values below 1 mg/L, is of little, if any, relevance for aquatic environments. Sodium hypochlorite does not accumulate in the food chain.

13. DISPOSAL CONSIDERATIONS

Container Disposal	Empty containers may be rinsed thoroughly with water then recycled.

14. TRANSPORT INFORMATION

Transport Information	This product is classified as UN 1791, Hypochlorite Solutions with more than 5% available chlorine. Dangerous Goods Class 8, Packaging Group III. Transport according to the ACTDG.
U.N. Number	1791

Proper Shipping Name	HYPOCHLORITE SOLUTION
DG Class	8
Hazchem Code	2X
Packaging Method	3.8.8RT7,RT8
Packing Group	III
EPG Number	8A1
IERG Number	37
IMO Marine Pollutant	This product is not considered to be a Marine Pollutant.

15. REGULATORY INFORMATION

Poisons Schedule	S5
Hazard Category	Corrosive,Dangerous for the environment
AICS (Australia)	To the manufacturer's best knowledge, the components of this product are listed on AICS.

16. OTHER INFORMATION

Contact Person/Point	Technical Manager (07) 3390 5044

...End Of MSDS...