



Material Safety Data Sheet

CS: 1.4.21

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Infosafe No™ 5GECJ	Issue Date :February 2009	DRAFT by GEELITE	CS: 1.4.21
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Product Name : **HYPO 12.5**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name HYPO 12.5
Product Code 10795000
Company Name Ionics Australasia Pty Ltd (trading as Elite Chemicals) (ABN 54 009 985 326)
Address 1873 Lytton Road Lytton
 QLD 4178 Australia
Emergency Tel. 07 3893 7500 (24HR), 0411 863 178
Telephone/Fax Number Tel: +61 7 3893-7500
 Fax: +61 7 3893-1219
Email info@elitechemicals.com.au
Recommended Use Process agent, universal disinfectant and bleach
Other Names Name Product Code
 Sodium Hypochlorite Solution
 Sodium Hypochlorite 12.5%,

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 water.
 S45 In case of accident or if you feel unwell seek medical advice immediately
 S50 Do not mix with other chemicals
Other Information Toxicity Data: By ingestion, Grade 1: oral rat LD50 = 8.91 g/kg

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Sodium Hypochlorite	7681-52-9	10-30 w/w	C, N	R31, R34, R50
	Sodium Hydroxide	1310-73-2	<1 %w/w	Xi	R36/38
	Other ingredients classified not hazardous at the concentrations used according to the criteria of ASCC.		Up to 100%		

4. FIRST AID MEASURES

First Aid Measures If poisoning occurs contact a doctor or Poisons Information Centre Phone 131126
Inhalation Remove from contaminated area immediately to fresh air; avoid becoming a casualty. If breathing is difficult, give oxygen. If not breathing apply artificial resuscitation. Seek medical advice.
Ingestion Do not induce vomiting. Rinse mouth out with water then give large quantities of water to drink. Do not give anything if victim is unconscious. Seek medical advice.
Skin Remove all contaminated clothing. Wash affected areas thoroughly with soap and water. Wash contaminated clothing before reuse. If irritation persists seek medical advice.



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Eye	Hold eyelids open and irrigate continuously with water for 15 minutes. Lift upper and lower lids occasionally. Seek medical advice.
First Aid Facilities	Use should be made of an on-site approved first aid kit if required in the first instance until medical assistance is forthcoming.
Advice to Doctor	Treat symptomatically. Show this M.S.D.S. to the medical practitioner.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing agents appropriate for surrounding fire. Water spray may be used to cool containers.
Hazards from Combustion Products	This material is non-flammable and non-combustible. Heat and acid contamination will produce irritating and toxic fumes. May decompose, generating irritating chlorine gas. Fumes may be highly toxic and irritating.
Special Protective Equipment for fire fighters	Fire fighters to wear full body protective clothing with breathing apparatus.
Specific Methods	Deluge with water to cool containers. Evacuate area move upwind of fire.
Hazchem Code	2X

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Ventilate the area of the spill or leak. For large spills, evacuate the hazard area of unprotected personnel. Wear appropriate protective clothing. Contain with absorbent and remove to drums for disposal. Soak up residue with an absorbent such as clay, sand or other suitable material; place in containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above.
Personal Protection	Ensure an eye bath and safety shower is available. Operators are recommended to wear full protective clothing, glasses/goggles, chemical resistant gloves, apron etc. including footwear.
Clean-up Methods - Small Spillages	Take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Remove in accordance with local waste management authority.
Environmental Precautions	Prevent spills from entering drains and waterways.

7. HANDLING AND STORAGE

Handling and Storage	Handle according to good manufacturing and industrial hygiene practices. Do not drink, eat or smoke while handling. Respect good personal hygiene.
Conditions for Safe Storage	Store in original container. Keep container upright in cool dry area. Keep lid of container closed when not in use. If containers become heated decomposition products (mainly oxygen) should be carefully vented.
Unsuitable Materials	Store away from class 8 acids. Do not mix or contaminate with ammonia, hydrocarbons, acids, alcohols or ethers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	The ASCC assigns no value for Sodium Hypochlorite. However, TWA for chlorine (decomposition product) = 1.0 ppm. Sodium Hydroxide: TWA = 2mg/m ³ .
Biological Limit Values	No Biological Limit Values available.
Engineering Controls	Use in a well ventilated area. If ventilation is insufficient use a corrosive - resistant ventilation system separate from other exhaust systems. Engineering control methods to reduce hazards are preferred.
Personal Protective Equipment	Ensure an eye bath and safety shower is available. Operators are recommended to wear full protective clothing, glasses/goggles, chemical resistant gloves, apron etc. including footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, pale yellow, mobile liquid.
Odour	Characteristic
Melting Point	Not relevant



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Product Name : **HYPO 12.5**

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Boiling Point	ca. 100 oC
Solubility in Water	Totally miscible in water
Specific Gravity	1.17 - 1.19 g/ml
pH Value	12.5 - 13.5
Flash Point	> 100 oC

10. STABILITY AND REACTIVITY

Chemical Stability	Reacts vigorously with acids producing dangerous levels of gaseous chlorine. Incompatible with amines, ammonium salts, aziridine, methanol and phenylacetonitrile.
Conditions to Avoid	Stability decreases with heat, light exposure, decrease in pH and contamination with heavy metals, such as nickel, cobalt, copper and iron. Use only as directed. Store in accordance with directions given in Section 7 of this MSDS.
Incompatible Materials	Strong acids, oxidizable materials, reducing agents, ammonia solutions, ether, peroxides, reducing agents and many organic and inorganic chemicals such as paint, kerosene, paint thinners, shellac, grease and oils.
Hazardous Decomposition Products	Chlorine. Additional decomposition products which depend upon pH, temperature and time are sodium chloride, sodium chlorate and oxygen.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Oral LD50 rat = 5000 mg/kg Dermal LD50 Rabbit: 3000 mg/Kg Inhalation LC50 RAT: > 10.5 mg/L/hr.
Inhalation	Inhalation of vapours or spray mists at high concentrations may cause irritation to the mucous membrane and upper respiratory tract.
Ingestion	The liquid is severely irritating to the gastrointestinal tract. Ingestion can cause nausea and vomiting.
Skin	liquid is corrosive to the skin.
Eye	This material is irritating to the eyes and can cause permanent damage if not promptly treated. High concentrations of vapours will cause irritation.
Chronic Effects	Repeated or prolonged skin contact can cause chemical burns.

12. ECOLOGICAL INFORMATION

Ecological Information	This material may be harmful to aquatic life in low concentrations.
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13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Remove for disposal in accordance with local waste management regulations.
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14. TRANSPORT INFORMATION

U.N. Number	1791
Proper Shipping Name	HYPOCHLORITE SOLUTION
DG Class	8
Hazchem Code	2X
Special Precautions for User	Store away from class 8 acids
Packaging Method	3.8.8RT7,RT8
Packing Group	III
EPG Number	8A1
IERG Number	37
Other Information	Contact Elite Chemicals if this product is to be transported by air or sea.



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15. REGULATORY INFORMATION

Poisons Schedule S5
Hazard Category Corrosive, Dangerous for the environment

16. OTHER INFORMATION

Manufacturers Advice DO NOT MIX WITH OTHER CHEMICALS WITHOUT PRIOR CONSULTATION WITH THE MANUFACTURER. Always use product as directed. Never return any unused material to original drum.

Other Information NOTICE: This MSDS 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 Product Technical Appraisal Sheet (Instructions for use), and the label on the drum. Elite Chemicals cannot anticipate or control the individual working conditions encountered and so each user should read this MSDS carefully, and if in doubt ring the Company number 07 3893 7500 (24 hour service) and / or the Contact Point Number given below. Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is lodged with each customer and is available on request.
...End Of MSDS...

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