

Infosafe No™ VARFF	Issue Date : January 2016	ISSUED by HUNTERST
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Product Name **SODIUM HYPOCHLORITE 12.5%**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	SODIUM HYPOCHLORITE 12.5%
<b>Company Name</b>	Hunters Products (TAS) Pty. Ltd. (ABN 004 601 263)
<b>Address</b>	60 Gleadow Street INVERMAY TAS 7248 Australia
<b>Telephone/Fax Number</b>	Tel: 03 6331 4755 Fax: 03 6334 1065
<b>Emergency phone number</b>	0407 610 542
<b>Recommended use of the chemical and restrictions on use</b>	As a chlorinating bleach and sanitiser. Use as directed on the product label. In prescribed premises, rinse all food areas with potable water after use.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	CM1 Corrosive to Metals: Category 1 ED1 Eye Damage/Irritation: Category 1 SC-1B Skin Corrosion/Irritation: Category 1B
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	EUH031 Contact with acids liberates toxic gas. H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
<b>Precautionary statement – General</b>	P102 Keep out of reach of children. P104 Read Safety Data Sheet before use.
<b>Pictogram (s)</b>	Corrosion



<b>Precautionary statement – Prevention</b>	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash contaminated skin thoroughly after handling P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement – Response</b>	P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/physician. P363 Wash contaminated clothing before reuse. P390 Absorb spillage to prevent material damage.
<b>Precautionary statement – Storage</b>	P405 Store locked up.
<b>Precautionary statement – Disposal</b>	P501 Dispose of contents/container in accordance with local regulations.

## 3. Composition/information on ingredients

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

## 4. First-aid measures

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<b>Inhalation</b>	Remove from exposure, rest and keep warm. In severe cases, obtain medical attention. Apply artificial respiration if not breathing.
<b>Ingestion</b>	Immediately rinse mouth with water. Do NOT induce vomiting. Slowly give water to drink. Seek medical assistance.
<b>Skin</b>	If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If swelling, redness, blistering, or irritation occurs seek medical advice.
<b>Eye contact</b>	If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
<b>First Aid Facilities</b>	Eye wash station and normal washroom facilities. Emergency shower if handling industrial quantities.
<b>Advice to Doctor</b>	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.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use extinguishing media appropriate to surrounding fire.
<b>Hazards from Combustion Products</b>	Chlorine, hydrogen chloride.
<b>Specific Methods</b>	In case of small fire/explosion use water. In case of major emergency use PPE: breathing apparatus and protective gloves.
<b>Specific hazards arising from the chemical</b>	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.
<b>Hazchem Code</b>	2X
<b>Other Information</b>	Avoid contact with coloured fabric as Chlorine may bleach colour out. May give off dangerous gas if mixed with other products.

## 6. Accidental release measures

<b>Emergency Procedures</b>	Contain. Increase ventilation.
<b>Spills &amp; Disposal</b>	For large spills: Contain spillages with sand or earth. Transfer both liquid and solids to suitable container(s). Treat residues as for small spills. For small spills: If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on inert absorbent and transfer to suitable closed container. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid contact with skin and eyes. Avoid breathing concentrated vapours. Keep away from combustible materials, acids, nitro compounds including amines and ammonium compounds, other chlorinating materials.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a bonded dangerous goods store. Store in original container. Containers should be vented with at least 5 % ullage, or unvented with at least 10 % ullage @ 23 °C. Do not store in unlined metal drums. Keep container tightly closed and out of direct sunlight. Prevent vapours from collecting in enclosed or low lying spaces. Keep away from acids, other oxidising agents, combustible materials. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.
<b>Unsuitable Materials</b>	Incompatibles: Acids, other oxidising agents, combustible materials, metals, metal salts, formic acid, amines, ammonium compounds, aziridine, methanol.

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## 8. Exposure controls/personal protection

<b>Appropriate engineering controls</b>	Avoid using wood, wood products or unprotected metals as materials of construction. Ensure adequate ventilation (same as outdoors) when using. If handling industrial quantities, or if vapour risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible and at least below the TLV.
<b>Personal Protective Equipment</b>	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:- Normal Use: Eye/face protection Gloves, rubber or plastic. Industrial Quantities: Face shield 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. CAUTION: Cotton or linen overalls impregnated with oxidising agents may be readily ignited and can burn fiercely.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Clear yellow liquid
<b>Colour</b>	Clear pale yellow.
<b>Odour</b>	Strong smell of chlorine.
<b>Boiling Point</b>	100C
<b>Solubility in Water</b>	Miscible with water in all proportions.
<b>Specific Gravity</b>	1.21
<b>pH</b>	12.0 - 13.0
<b>Vapour Pressure</b>	Not available.
<b>Flash Point</b>	None
<b>Flammability</b>	Not flammable. Moderate oxidiser. Contact with combustible materials may cause fire.
<b>Other Information</b>	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.

## 10. Stability and reactivity

<b>Conditions to Avoid</b>	Incompatible materials, heating, sunlight, prolonged exposure to air.
<b>Incompatible Materials</b>	Acids, other oxidising agents, combustible materials, amines, ammonium compounds, formic acid, methanol, phenylacetonitrile, reducing agents, metal salts, metals, wood and wood products.
<b>Hazardous Decomposition Products</b>	Chlorine, hydrogen chloride.

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**Possibility of hazardous reactions** Contact with combustible materials may cause fire. May react explosively with formic acid, phenylacetonitrile. Forms explosive products with amines, ammonium compounds, aziridine, methanol. Contact with acids will generate chlorine gas.

## 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** Corrosive and irritating if swallowed. May cause corrosion of the mucous membranes of the mouth, throat and gastrointestinal tract, a burning sensation, pain, abdominal cramps, oesophageal or gastric perforation, laryngeal oedema. May cause general depressed activity, lowering of blood pressure, nausea, vomiting, weakness, delirium, loss of consciousness and coma.

**Inhalation** Inhalation of vapours or aerosols may cause coughing, shortness of breath and a burning sensation. May cause severe bronchial irritation and pulmonary oedema (fluid build-up in the lungs). Onset of symptoms may be delayed by several hours after exposure. Pulmonary complications, e.g. from aspiration, may contribute to the death of a casualty.

**Skin** Short contact may cause irritation. On longer contact risk of chemical burns.

**Eye** Corrosive or irritating to eyes. May cause redness, pain, severe deep burns. Prolonged contact may lead to permanent injury.

**Chronic Effects** Chronic skin exposure may cause skin sensitisation in some rare cases, but sodium hypochlorite is not classified as a sensitiser. Chronic exposure to sodium hypochlorite may lead to methaemoglobinaemia, characterised by chocolate-brown coloured blood, headache, dizziness, weakness, shortness of breath, cyanosis, rapid heart rate, unconsciousness and possible death.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic organisms.

**Persistence and degradability** Will degrade on exposure to air, sunlight.

**Mobility** Readily transported by water and through soil.

**Environmental Fate** Decomposes over time.

**Environmental Protection** Avoid contaminating waterways, drains, sewers, or ground.

## 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.

**Special precautions for landfill or incineration** Unsuitable for incineration. May be unsuitable for landfill.

## 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: -

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	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.
<b>U.N. Number</b>	1791
<b>UN proper shipping name</b>	HYPOCHLORITE SOLUTION
<b>Transport hazard class(es)</b>	8
<b>Hazchem Code</b>	2X
<b>Packaging Method</b>	3.8.8RT7,RT8
<b>Packing Group</b>	III
<b>EPG Number</b>	8A1
<b>IERG Number</b>	37

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## 15. Regulatory information

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<b>Poisons Schedule</b>	S5
<b>Hazard Category</b>	Corrosive
<b>AICS (Australia)</b>	All components listed.

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## 16. Other Information

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**Signature of Preparer/Data Service**      Technical Manager 0407 610 542

**Technical Contact Numbers**      Emergency Advice All Hours:  
Technical Manager: 0407 610 542 Mon-Fri 8am - 6pm  
Poisons Information Centre: 13 11 26 - 24hrs  
Transport/Fire Emergency: 000 (Emergency services)

**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.  
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