

Infosafe No™ VAR7R	Issue Date : May 2012	ISSUED by HUNTERST
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Product Name **BLEACH**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name BLEACH
Company Name Hunters Products (TAS) Pty. Ltd. (ABN 004 601 263)
Address 60 Gleadow Street INVERMAY
 TAS 7248 Australia
Emergency Tel. 0407 610 542
Telephone/Fax Number Tel: 03 6431 9627
 Fax: 03 6432 2083
Recommended Use As a bleaching and sanitising agent.

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous according to criteria of NOHSC
 HAZARDOUS SUBSTANCE.
 NON-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 according to criteria of NOHSC
 R31 Contact with acids liberates toxic gas.
 R36/38 Irritating to eyes and skin.

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 acids
 S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Liquid

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Water	7732-18-5	to 100%
	Sodium hypochlorite	7681-52-9	<10%
	Other ingredients determined not to be hazardous	Not required	<10%
	Available Chlorine	7681-52-9	5%

4. FIRST AID MEASURES

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

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 open, 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, with up to 5 % available chlorine. 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

Suitable Extinguishing Media Use extinguishing media appropriate to surrounding fire.

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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	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.
Other Information	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

Emergency Procedures	Contain. Increase ventilation.
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.

7. HANDLING AND STORAGE

Conditions for Safe Storage	Store in a cool, well ventilated place, out of reach of children. Large quantities should be stored in a banded 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.
Unsuitable Materials	Incompatibles: Acids, reducing agents, other types of chlorinating compounds, combustible materials, metals and their salts, hydrogen peroxide, aliphatic and aromatic amines, methanol and nitrites.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Prevent direct contact with metals. Avoid using wood or wood products 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.
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:- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
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Appearance	Clear, colourless liquid.
Odour	Mild odour of chlorine bleach.
Boiling Point	100C
Solubility in Water	Miscible with water in all proportions.
Specific Gravity	1.1
pH Value	7.9
Vapour Pressure	Not available.
Volatile Component	5 % as available chlorine.
Flash Point	None
Flammability	Not flammable. Moderate oxidiser.
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.

10. STABILITY AND REACTIVITY

Chemical Stability	May decompose slowly in long storage, evolving chlorine.
Conditions to Avoid	Incompatible materials, sunlight, contamination of any sort.
Incompatible Materials	Acids, reducing agents, oxidising agents, other types of chlorinating compounds, metals, wood and wood products, aliphatic and aromatic amines, methanol and nitrites.
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.
Hazardous Reactions	My form toxic oxides of Chlorine if involved in a fire.

11. TOXICOLOGICAL INFORMATION

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. Risk of delayed onset of pulmonary oedema (fluid in the lungs).
Ingestion	Will cause irritation and corrosion of the mouth, throat and gastrointestinal system. May cause pain and vomiting.
Skin	Short contact may cause irritation. On longer contact risk of chemical burns.
Eye	Severe irritant. Risk of permanent damage.
Chronic Effects	Repeated skin contact may lead to dermatitis or 'chloracne'. Chronic exposure to sodium hypochlorite may cause methaemoglobinemia, characterised by chocolate-brown coloured blood, headache, dizziness, weakness, shortness of breath, cyanosis, rapid heart rate, loss of consciousness. Sodium hypochlorite is classified by IARC (1991) as group 3; unclassifiable as to carcinogenicity to humans (on inadequate animal data, no human data).
Acute Toxicity - Oral	LD50: Sodium Hypochlorite 8910 mg/kg oral, rat
Acute Toxicity - Inhalation	LC 50 : Chlorine 293 ppm/1 hour rat LCLo : Chlorine 2,530 mg/m ³ /30 minutes human

12. ECOLOGICAL INFORMATION

Ecotoxicity	Sodium hypochlorite is harmful to aquatic organisms.
Persistence / Degradability	Readily decomposed on exposure to organic matter.

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Mobility Readily transported by water.
Information on Ecological Effects Harmful to aquatic life.
Environ. Protection Avoid contaminating waterways, drains, sewers, or ground.
Acute Toxicity - Fish LC50: 0.07 mg/L (48 hours) - Fish (rainbow trout).
5.9 mg/L (48 hours) - Fish (flathead minnow).

13. DISPOSAL CONSIDERATIONS

Waste Disposal Land fill, sewer (small quantities). Refer to Land Waste Management Authority in your State.
Product Disposal Avoid disposal to natural waters.
Container Disposal Avoid using un-lined metal containers.
Special precautions for landfill or incineration Unsuitable for incineration.
May be unsuitable for landfill sites.

14. TRANSPORT INFORMATION

Transport Information Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Store away from acids.

15. REGULATORY INFORMATION

Poisons Schedule Not Scheduled
Hazard Category Irritant
AICS (Australia) All components listed.

16. OTHER INFORMATION

Signature of Preparer/Data Service Technical Manager (03) 6431 9627
Technical Contact Numbers Emergency Advice All Hours:
Technical Manager: (03) 6431 9627 Mon-Fri 8am - 6pm
Poisons Information Centre: 13 11 26 - 24hrs
Transport/Fire Emergency: 000 (Emergency services)
Other Information 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 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 MSDS carefully, and if in doubt ring the Contact Point Number given below.
...End Of MSDS...

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