

Safety Data Sheet

Chlorsan

1: Identification of the material and supplier

Names

Product Name: Chlorsan
Other Name: Sodium hypochlorite, hypochlorite solution
Supplier: Chemform Pty Ltd (ABN: 50 008 905 119)
7 Kirke Street, Balcatta, WA 6021
Phone (08) 9344 2455 Fax: (08) 9344 4360 Email: admin@chemform.com.au
Emergency Telephone: Poisons Information Centre (Australia) 13 1126
Recommended Use: Bleach, destainer, sanitiser

2: Hazardous Identification

Statement of Hazardous/Dangerous Nature: Corrosive classified as hazardous according to the criteria of Safe Work Australia and as classified dangerous goods according to Australian Dangerous Goods Code.

Hazard Classification C Corrosive
N Dangerous for the environment

Risk Phrases: R31 Contact with acids liberates very toxic gas.
R34 Causes burns
R36/38 Irritating to eyes and skin
R50 Very toxic to aquatic organisms

Safety Phrases: S1/2 Keep locked up and out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin wash immediately with water.
S37/39 Wear suitable gloves and eye/face protection
S45 In case of accident or if you feel unwell, seek medical advice immediately.
S50 Do not mix with acids or acidic products.
S61 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

3: Composition/Information on Ingredients

INGREDIENT	CAS NUMBER	PROPORTION
Available Chlorine as Sodium Hypochlorite	7681-52-9	10-<30%
Sodium Hydroxide	1310-73-2	<1%
Non hazardous ingredients		To 100%

4: First Aid Measures

Ingestion:	If person is conscious, rinse mouth thoroughly with water immediately and give water or milk to drink. Do not induce vomiting. Seek urgent medical attention.
Eye:	If in eyes, hold eyelids apart and flush the eye continuously with running water for at least 15 minutes. Seek urgent medical attention.
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Inhaled:	Remove person to a well ventilated area. Keep warm and at rest.
Long Term Effects (Chronic):	Prolonged or repeated contact may lead to dermatitis and necrosis.
Advice to Doctor:	Sodium hypochlorite is an alkali and is corrosive. On contact with flesh it causes liquefaction necrosis on proteins, and is potentially much more dangerous than acid burns. The product will liquefy tissue by denaturation of proteins and saponification of fats.
First Aid Facilities:	Eye wash station, running water

5: Fire Fighting Measures

General Comment:	The product is non combustible.
Specific Hazards:	This product reacts with acids to liberate very toxic chlorine gas.
Hazchem Code:	2X

6: Accidental Release Measures

Spills and Disposal:	Contain spill and absorb sand and collect in open top sealable drums for disposal. Very small spills can be diluted with water and washed away.
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7: Handling and Storage

Handling:	Minimise direct contact with product. Use only clean, plastic containers when measuring, dispensing or using the product.
Storage:	Store in a cool and well ventilated area. The product decomposes and releases chlorine slowly. However if stored in sunlight and heat the product decomposes rapidly. In Australian summer if product is stored outside in the open in one month the product will decompose from 12% to 4% available chlorine. Always ensure caps are vented caps. Store away from acids and oxidizing materials.
Hygiene Measures:	Always wash hands before eating, drinking, smoking or using the toilet.

8: Exposure Controls – Personal Protection

National Exposure Standards:	None established for the product. TWA for chlorine gas is 3.0mg/m ³
Engineering Controls:	Use in open or well ventilated areas.
Personal Protection:	
Eyes:	Face shield or goggles

Hands: Nitrile gloves
Skin: Overalls or apron and chemical resistant safety boots.

9: Physical and Chemical Properties

Appearance: Yellow liquid
Odour: Chlorine odour
pH (Undiluted): 12.0-13.0
Vapour Pressure: 12.1mm of mercury at 20°C
Vapour Density: None data available
Boiling Point: 100-110°C with vigorous decomposition
Melting Point: -15°C
Solubility: Soluble in water in all proportion
Specific Gravity: 1.18
Flash Point: Not applicable

10: Stability and Reactivity

Chemical Stability: Product decomposes slowly and releases very toxic gas. However, if stored in heat (30-50°C) its decomposition speed increases substantially.
Conditions to Avoid: Avoid extreme heat, high temperatures
Incompatible Materials: May produce flammable oxygen gas if product comes into contact with metals.
Hazardous Reaction: Reacts violently with acids liberating very toxic chlorine gas and excessive heat.

11: Toxicological Information

Toxicology Information:
Ingestion (acute): Severe burns to mouth, oesophagus and stomach accompanied by severe burning sensation. Severe scarring of tissue and even death.
Eye (acute): Very corrosive will cause severe eye burns and may lead to permanent eye damage.
Skin (acute): Very corrosive.
Inhalation (acute): Inhalation of mists may result in burns to the nose and upper respiratory track.
Chronic Effects (acute): Long term exposure may lead to dermatitis and necrosis.

12: Ecological Information

Environmental Protection: Avoid contaminating waterways.
Chlorsan is detergent free, phosphate free, portion control, uses recyclable waste reduced packaging and is VOC free.

Refer to the Environmental Guide section of our website www.chemform.com.au for more information.

13: Disposal Considerations

Disposal Methods: Please recycle containers. In the Perth Metro area present drums for recycling at your next delivery from Chemform. Outside the Perth Metro area return this drum to an Authorized Collection Agency or contact your local council for advice. Disposal of this product and solutions of this product should at all times comply with requirements of environmental protection and waste disposal legislation as well as requirements by local authorities.

14: Transport Information

UN Number: 1791
UN Proper Shipping Name: Sodium hypochlorite solution
Class: 8
Subsidiary Risk: None allocated
Packing Group: III
Special Precautions: Ensure all containers are clearly labeled. Keep containers securely sealed, ensure all caps are vented and stored in a cool, well ventilated space.
For Users: vented and stored in a cool, well ventilated space.
Hazchem Code: 2X
IERG Number: 37

15: Regulatory Information

Packaging & Labelling: This product contains a Scheduled Poison (S5) and must therefore be stored, maintained and used in accordance with the relevant State Poisons Act. Defined as a "Dangerous Good" by the Australian Code for the Transport of Dangerous Goods by Road and Rail. Bulk.

16: Other Information

Prepared By: Brett Amos
Date of Previous Issue: April 2007
Change Made: Full review
References: Australian Dangerous Goods Code
List of Designated Hazardous Substances
National Code of Practice for the Preparation of Material Safety Data Sheets
Standard for the Union Scheduling of Drugs and Poisons
Contact Person/Point: Australia:
24 HOUR EMERGENCY CONTACT
Poisons Information Centre (Australia) 13 1126

LEGAL DISCLAIMER:

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

END OF SAFETY DATA SHEET