



## Section 1: Identification of the Material and Supplier

**Product Name:** Chlorox

**Other Names:** Chlorinating mixture of alkaline salts.

**Proper shipping name (ADG Code):** None assigned.

**Recommended use:** As a cleaner, disinfectant and deodoriser.  
Use as directed on the product label.  
Rinse with potable water after use.

**Supplier:** Hunters Products (TAS) Pty. Ltd.,  
A.C.N. 004 601 263

### HEAD OFFICE

60 Gleadow Street,  
INVERMAY TAS 7248  
Tel: 03 6331 4755  
Fax: 03 6334 1065

### HOBART OFFICE

105 Albert Road,  
MOONAH TAS 7009  
Tel: 03 6228 7955  
Fax: 03 6228 7988

### BURNIE OFFICE

22 Pearl Street,  
WIVENHOE TAS 7320  
Tel: 03 6431 9627  
Fax: 03 6432 2083

### Emergency Phone Numbers:

Transport/Fire Emergency: 000 (Emergency services)  
Medical Emergency: 131126 (Poisons Information Centre)

## Section 2: Hazards Identification

Classified as hazardous according to criteria of Worksafe Australia.  
Non-dangerous goods.

**Risk Phrases:** R: 31 Contact with acids liberates toxic gas.  
R: 36/38 Irritating to eyes and skin.

**Safety Phrases:** S: 2 Keep out of the reach of children.  
S: 22 Do not breathe dust.  
S: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## Section 3: Composition/Information on Ingredients

### Ingredients:

tri-Sodium phosphate, chlorinated	[56802-99-4]	30 - 60 %
Sodium carbonate anhydrous	[497-19-8]	10 - 30 %
Other ingredients deemed not to be hazardous		to 100 %
Available chlorine	[7782-50-5]	up to 1.5 %

## Section 4: First Aid Measures

**For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.**

**Swallowed:** If swallowed, do NOT induce vomiting.

**Skin:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

**Eyes:** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

**Inhaled:** Remove from exposure, rest and keep warm. Seek medical advice.

**First Aid facilities:**

Recommended: Eye wash. Hand wash basin.

**Advice to Doctor:**

Product is a mixture of alkaline salts with a low proportion of available chlorine. Irritating to skin and eyes. Contact Poisons Information Centre.

**Aggravated medical conditions:**

No data found.

## Section 5: Fire Fighting Measures

**HAZCHEM Code:** None assigned.

**Evacuate:** No.

**Extinguishant:** Water.

**Risk of violent reaction or explosion:** No.

**Products of combustion:** Chlorine, hydrogen chloride, oxides of phosphorus.

**Protective Equipment:** Breathing apparatus and protective gloves for fire only.

## Section 6: Accidental Release Measures

**Emergency Procedures:**

Contain. Increase ventilation.

**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 container. Wash site of spillage thoroughly with water and detergent. Ventilate area to dispel any residual vapours.

## Section 7: Handling and Storage

**Precautions for safe handling:**

Avoid contact with skin and eyes.  
Avoid breathing dust.  
Keep away from acids.

**Conditions for safe storage:**

Store in a cool, dry, well ventilated place, out of reach of children. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from acids. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

**Incompatibles:**

Acids.

## Section 8: Exposure Controls/Personal Protection

**National Exposure Standards:**

**ES-TWA:** Chlorine 1 ppm, 3 mg/m<sup>3</sup>

**ES-STEL:** None assigned.

**ES-PEAK:** Chlorine 1 ppm, 3 mg/m<sup>3</sup>

**Notations:** None.

*[Peak] indicates a ceiling concentration which should not be exceeded, even momentarily.*

**Biological Limit Values:** No data found.

**Engineering Controls:**

Ensure adequate ventilation (same as outdoors) when using. If handling industrial quantities, or if dust/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:**

Avoid contact with skin and eyes. Avoid breathing dust. 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:**

Dust mask  
Face shield or safety glasses  
Gloves, rubber or plastic  
Plastic apron, sleeves and boots  
Impervious overalls.

## Section 9: Physical and Chemical Properties

Appearance: White, or off-white, granular powder.  
Odour: Slight smell of hypochlorite bleach.  
Odour threshold: Chlorine 3 ppm.  
pH: Very alkaline.  
Vapour Pressure: No data.  
Vapour Density: No data.  
Boiling Point: No data.  
Melting Point: No data.  
Volatiles: < 1 %  
Volatile Organic Compounds (VOC): Nil.  
Evaporation Rate: No data.  
Solubilities: Soluble in water.  
Specific Gravity/Density: No data.  
Flash Point: None.  
Flammable Limits: None.  
Dust Explosion: Will not happen.  
Auto-ignition Temperature: No data.

**Other Information:**

Very alkaline. Will react vigorously or violently with acids, generating carbon dioxide (a simple asphyxiant) and a small quantity of chlorine (a toxic gas). Slightly hygroscopic, may absorb moisture from the air. Spillages will be slippery when wet.

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** Incompatible materials, moist air.  
**Incompatible Materials:** Acids.  
**Hazardous Decomposition Products:** Chlorine, hydrogen chloride, oxides of phosphorus.  
**Hazardous Reactions:** Contact with acids will generate carbon dioxide and chlorine.

## Section 11: Toxicological Information

### Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

- Acute:**
- Swallowed:** Likely to cause gastric upset, abdominal pain, nausea, vomiting and diarrhoea. Large doses may be corrosive to the gastrointestinal tract. Possible risk of ulceration and bleeding from the stomach, duodenum and small intestine. Strong solutions may cause local necrosis of the mucous membranes.
- Skin:** Irritating to skin, especially when wet. Strong solutions may cause redness, blisters. Will have a degreasing effect on the skin, which may lead to further irritation.
- Eyes:** Irritating to eyes. May be corrosive to eyes, causing conjunctival oedema and corneal damage.
- Inhaled:** Dust may be irritating to the respiratory system. Symptoms may include coughing, wheezing, difficulty breathing, a burning pain in the nose and throat. Over-exposure to dust may lead to pulmonary oedema (fluid build-up in the lungs). Onset of symptoms may be delayed by a few hours.
- Chronic:** Repeated inhalation exposure to sodium carbonate may cause nose bleeds, nasal congestion, erosion of the teeth, perforation of the nasal septum, chest pains and bronchitis.  
Prolonged exposure to low concentrations of chlorine may cause chloracne.

LD <sub>50</sub> :	tri-Sodium phosphate chlorinated	No hard data found.
	Sodium carbonate anhydrous	4,090 mg/kg oral, rat.
	Other ingredient #1	3,120 mg/kg oral, rat.
LC <sub>50</sub> :	Sodium carbonate anhydrous	2,300 mg/m <sup>3</sup> /2 hours, rat.

## Section 12: Ecological Information

- Ecotoxicity:** Contains a chlorinating compound. Harmful to aquatic organisms.
- Persistence and degradability:** No data.

**Mobility:** Readily transported by water.

**Environmental Fate:** No data.

**Bioaccumulative potential:** No data.

**Other adverse environmental effects:** Contains a high proportion of phosphates. Will contribute to the development of algal bloom in natural waters.

## Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

**Disposal methods and containers:**

Avoid disposal to natural waters or the environment.

**Special precautions for landfill or incineration:**

Unsuitable for incineration.

## Section 14: Transport Information

**UN Number:** None assigned.

**UN Proper shipping name:** None assigned.

**Class and subsidiary risk:** None assigned.

**Packaging group:** None assigned.

**Special precautions for user:** Contain spillages.

**HAZCHEM Code:** None assigned.

**Material for export:** Not regulated.

## Section 15: Regulatory Information

**Poisons (SUSDP):** Schedule 5  
*Alkaline salts with pH > 11.5.*

**Dangerous Goods:** No.

<b>Carcinogen:</b>	<b>Australia</b>	<b>IARC</b>	<b>NTP</b>	<b>RTECS</b>
	No.	No.	No.	No.

**Agricultural and Veterinary Chemicals Act:** Not applicable.

**Australian Inventory of Chemical Substances (AICS):** Listed.

**Other National/International Regulations:** No data.

## Section 16: Other information

**Date of MSDS update:** April 2007  
Complete review and re-write of all sections.

**Abbreviations:**

NOHSC - National Occupational Health and Safety Commission.  
ACGIH - American Conference of Governmental Industrial Hygienists.  
MAK - Maximum workplace concentration - Germany,  
(*maximale Arbeitsplatzkonzentration*)  
IARC - International Agency for Research on Cancer (France).  
NPT - National Toxicology Program (USA).  
RTECS - Registry of Toxic Effects of Chemical Substances.

**Literature references:**

**Other Available Sources of Data:**

*National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [2011(2003)] - NOHSC.*  
*Australian Dangerous Goods Code.*  
*Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.*  
*Exposure Standards for Atmospheric Contaminants in the Occupational Environment [1003]- NOHSC.*  
*List of Designated Hazardous Substances [10005] - NOHSC.*  
*Merck Index - Merck Inc.*  
*Sax's Dangerous Properties of Industrial Materials - Lewis.*  
*Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.*  
*Handbook of Reactive Chemical Hazards - Bretherick.*  
*Hawley's Condensed Chemical Dictionary - Wiley Interscience.*  
*AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.*