



## Section 1: Identification of the Material and Supplier

**Product Name:** Powdered Bleach

**Other Names:** Mixture containing sodium dichloroisocyanurate dihydrate.

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

**Recommended use:** As a bleach.  
Use as directed on the product label.

**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: 36/37/38 | Irritating to eyes, respiratory system and skin.   |
| R: 50/53    | Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment. |

**Safety Phrases:**

|       |   |
|-------|---|
| S: 2  | Keep out of the reach of children.  |
| S: 8  | Keep container dry.   |
| S: 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| S: 36 | Wear suitable protective clothing.  |
| S: 41 | In case of fire and/or explosion, do not breathe fumes.                                       |
| S: 60 | This material and its container must be disposed of as hazardous waste.                       |

S: 61                    Avoid release to the environment. Refer to special instructions / Material Safety Data Sheet.

### Section 3: Composition/Information on Ingredients

**Ingredients:**

|  |              |           |
|--|--------------|-----------|
| Sodium dichloroisocyanurate dihydrate        | [51580-86-0] | 10 - 30 % |
| Other ingredients deemed not to be hazardous |              | to 100 %  |
| Available chlorine                           | [7782-50-5]  | 14.8 %    |

### 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, wash out immediately with water.

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

**First Aid facilities:**

Mandatory: Eye wash. Hand wash basin.

**Advice to Doctor:**

Product contains a moderate proportion of sodium dichloroisocyanurate, with nearly 15 % available chlorine. Irritating by all routes. If swallowed, may damage the gastrointestinal mucosa and cause ulceration and bleeding. Contact Poisons Information Centre.

**Aggravated medical conditions:**

Respiratory disorders.

### Section 5: Fire Fighting Measures

**HAZCHEM Code:** None assigned.

**Evacuate:** No.

**Extinguishant:** Water.

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

**Products of combustion:** Oxides of carbon, oxides of nitrogen, chlorine, hydrogen chloride, hydrogen cyanide.

**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 closed 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 dusts or vapours.  
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, oxidising agents, reducing agents, ammonium or nitro compounds, combustible materials. Protect from physical damage. Clean up all spills promptly; avoid secondary accidents.

**Incompatibles:**

Acids, oxidising agents, reducing agents, other types of chlorinating agents, ammonium compounds, nitrogenous materials, combustible materials.

## 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 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 or 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:**

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

**CAUTION:** *Cotton or linen overalls impregnated with oxidising agents are readily ignited, and can burn fiercely.*

## Section 9: Physical and Chemical Properties

Appearance: White, granular powder.  
Odour: Odour of chlorine bleach.  
Odour threshold (chlorine): 0.3 ppm  
pH: Neutral to slightly alkaline.  
Vapour Pressure: No data.  
Vapour Density: No data.  
Boiling Point: No data.  
Melting Point: No data.  
Volatiles: About 15 % [as available chlorine]  
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: 240 °C

**Other Information:**

Contact with acids will generate chlorine, a toxic gas. Hygroscopic, may absorb moisture from the air. Will decompose slowly on contact with moisture, forming sodium hypochlorite, cyanuric acid and chlorine. May react violently with calcium hypochlorite. Corrosive to some metals, especially in the presence of moisture. May react with oxidising agents, reducing agents, ammonium compounds and other nitrogenous materials. Heating above 240 °C may cause a self-sustaining auto-decomposition reaction, generating toxic fumes. May react with combustible materials.

## Section 10: Stability and Reactivity

- Chemical Stability:** Stable under normal conditions.
- Conditions to Avoid:** Incompatible materials, heat, moisture.
- Incompatible Materials:** Acids, oxidising agents, reducing agents, other types of chlorinating agents, metals, ammonium compounds and other nitrogenous materials, moisture, combustible materials.
- Hazardous Decomposition Products:** Oxides of nitrogen, chlorine, hydrogen chloride, hydrogen cyanide.
- Hazardous Reactions:** May react violently with calcium hypochlorite and other types of chlorinating agents. Contact with acids will generate chlorine gas. May react with combustible materials in the presence of moisture.

## Section 11: Toxicological Information

**Health Effects:**

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

- Acute:**
- Swallowed:** Harmful if swallowed. May be fatal in large doses. Likely to cause gastric upset, a burning sensation, abdominal pain, nausea, vomiting and diarrhoea. May cause ulceration and bleeding from the digestive tract. Other effects may include lachrymation, difficulty breathing, sore throat, weakness.
  - Skin:** Irritating to the skin, especially when wet. May cause redness, pain and skin burns.
  - Eyes:** Severe irritant. May cause redness, pain and tissue burns.
  - Inhaled:** Irritating to the respiratory system. May cause coughing, wheezing and sore throat. Exposure to dust or chlorine vapours may cause pulmonary oedema (fluid build-up in the lungs) with potential to become a medical emergency. Onset of symptoms may be delayed.
- Chronic:** Repeated or prolonged exposure to chlorine vapours may lead to chloracne.

|                          |                             |   |
|--------------------------|-----------------------------|---|
| <b>LD<sub>50</sub> :</b> | Sodium dichloroisocyanurate | 1,420 mg/kg oral, rat.                                |
|                          | Other ingredient #1         | 5,989 mg/kg oral, mouse.                              |
|                          | Other ingredient #2         | 3,120 mg/kg oral, rat.                                |
| <b>LDLo:</b>             | Sodium dichloroisocyanurate | 3,570 mg/kg oral, human.<br>3,160 mg/kg skin, rabbit. |

## Section 12: Ecological Information

|   |  |
|---|--|
| <b>Ecotoxicity:</b>                         | Very toxic to aquatic organisms.<br>May cause long term adverse effects<br>in the aquatic environment.                               |
| <b>Persistence and degradability:</b>       | No data.   |
| <b>Mobility:</b>                            | Readily transported by water.  |
| <b>Environmental Fate:</b>                  | No data.   |
| <b>Bioaccumulative potential:</b>           | No data.   |
| <b>Other adverse environmental effects:</b> | Contains a moderate proportion<br>of inorganic phosphate. Will<br>contribute to the development of<br>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.

Contains a high proportion of inorganic sulphate. The disposal of large quantities of sulphates to concrete sewer may be regulated by local authorities.

**Disposal methods and containers:**

Avoid disposal to sewer, natural waters or the environment.

**Special precautions for landfill or incineration:**

Unsuitable for incineration.

## Section 14: Transport Information

|                                   |                |
|-----------------------------------|----------------|
| <b>UN Number:</b>                 | None assigned. |
| <b>UN Proper shipping name:</b>   | None assigned. |
| <b>Class and subsidiary risk:</b> | None assigned. |
| <b>Packaging group:</b>           | 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  
*Sodium dichloroisocyanurates, containing less than 40 % of available chlorine, but more than 4 % of available chlorine.*

**Dangerous Goods:** No.  
*The provisions of the Australian Dangerous Goods Code do not apply to the dihydrate of sodium dichloroisocyanurate.*

|                    |                  |             |            |              |
|--------------------|------------------|-------------|------------|--------------|
| <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:** June 2007  
Complete review and re-write of all sections.

**Abbreviations:**

NOHSC - National Occupational Health and Safety Commission.  
ACGIH - American Conference of Governmental Industrial Hygienists.  
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.*