



SAFETY DATA SHEET

According to Safe Work Australia

Printing date 17.06.2013

Revision: 17.06.2013

1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: POOL PRO GRANULAR CHLORINE

Recommended Use of the Chemical and Restriction on Use:
Swimming pool chemical, algicide, biocide and oxidant.

Details of Manufacturer or Importer:
The POPS Group Pty Ltd as Trustee for The Pool Shops Trust
10-12 Cairns Street
Loganholme QLD 4129

Phone Number:
07 3209 7884
1800 143 788

Emergency telephone number:
1800 033 111
+61 3 9663 2130 International

2. HAZARDS IDENTIFICATION

Hazardous Nature:



GHS03 flame over circle

Ox. Sol. 2 H272 May intensify fire; oxidiser.



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Label Elements

Signal Word Danger

Hazard Statements

H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.

Precautionary Statements

P221 Take any precaution to avoid mixing with combustibles.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P220 Keep/Store away from clothing/combustible materials.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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- P273 Avoid release to the environment.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P321 Specific treatment (see on this label).
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P363 Wash contaminated clothing before reuse.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P330 Rinse mouth.
P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national regulations.

Additional Information AUH031 Contact with acids liberates toxic gas.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

7778-54-3	Hypochlorous acid, calcium salt ⚠ Ox. Sol. 2, H272; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302	>60%
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4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact:

Remove contaminated clothing and wash affected areas with soap and water. Seek immediate medical attention. Launder clothing before reuse. Skin burns cover with a clean, dry dressing until medical help is available.

Eye Contact:

In case of eye contact, check for and remove any contact lenses. Immediately irrigate eyes with plenty of running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Ingestion:

If swallowed, do NOT induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Information for Doctor

Treat symptomatically. Can cause corneal burns. Delayed effects from exposure to chlorine (decomposition product) can include shortness of breath, severe headache, pulmonary oedema and pneumonia.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray (large quantities).

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Specific Hazards Arising from the Chemical

Not combustible, however will support the combustion of other materials. Calcium hypochlorite is a powerful oxidising agent and decomposes violently upon heating liberating oxygen, and toxic chlorine gas.

Special Protective Equipment and Precautions for Fire Fighters

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

6 . ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Ensure adequate ventilation. Do not breathe dust.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and contain spill. Sweep up, avoiding generation of dust. Immediately spread as a thin layer in uncontaminated, dry, open area to reduce the possibility of forming local hot spots . Do not return spilled material to original container. Do not add small amounts of water to calcium hypochlorite.

Where a spill has occurred in a confined space or an inadequately ventilated enclosure and the material is damp and evolving chlorine, the rate of chlorine evolution can be reduced by covering the thinly spread solid with soda ash.

7 . HANDLING AND STORAGE**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry, well ventilated place and out of direct sunlight. Keep containers closed when not in use. Protect from water and moisture. Store away from dichloroisocyanuric acid, ammonium nitrate, trichloroisocyanuric acid, or any chloroisocyanurate. Check regularly for spills.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION**Exposure Standards (Safe Work Australia):****7782-50-5 chlorine**

NES	TWA: 3* mg/m ³ , 1* ppm
	*Peak limitation

Engineering Contols:

Local exhaust ventilation is recommended when dusts can be released in excess of established airborne exposure limits.

Personal Protective Equipment (PPE):**Respiratory Protection:**

Use with local exhaust ventilation or while wearing dust mask. Use an Safe Work Australia approved full face supplied air respirator if high airborne concentrations of the material are present. See Australian Standards AS/NZS 1715 and 1716 for more information.

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Skin Protection:

Protective gloves and protective clothing. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Solid
Colour:	White
Odour:	Chlorine-like
Odour Threshold:	No information available
pH-Value:	11.5 (5% aqueous solution)
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Flammability:	Contact with combustible material may cause fire.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density:	2.1
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Soluble in water

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: Powerful oxidising agent.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Moisture and water.

Incompatible Materials:

Dichloroisocyanuric acid, ammonium nitrate, trichloroisocyanuric acid, or any chloroisocyanurate. Reacts with water liberating chlorine.

Hazardous Decomposition Products: Decomposes on contact with water evolving toxic chlorine gas.

11 . TOXICOLOGICAL INFORMATION

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****7778-54-3 Hypochlorous acid, calcium salt**

Oral	LD ₅₀	850 mg/kg (rat)
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Acute Health Effects**Inhalation:**

Breathing in dust may result in respiratory irritation. Chlorine, evolved from decomposition when wet, is a severe respiratory irritant, corrosive, and highly toxic. Delayed effects can include shortness of breath, headache, pulmonary oedema, and pneumonia.

Skin: Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.

Eye:

A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Ingestion:

Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes eye damage.

Respiratory or Skin Sensitisation: No sensitising effects known.

Germ Cell Mutagenicity: No information available

Carcinogenicity:

Calcium hypochlorite is classified by IARC as a Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: No information available

Specific Target Organ Toxicity (STOT) - Single Exposure: No information available

Specific Target Organ Toxicity (STOT) - Repeated Exposure: No information available

Aspiration Hazard: Not expected to be a hazard.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Very toxic to aquatic organisms. Expected to be harmful to terrestrial species. Avoid contaminating waterways.

Aquatic toxicity:**7778-54-3 Hypochlorous acid, calcium salt**

EC50 0.067 mg/L / 48 hr (daphnia)

LC50 0.057 mg/L / 96 hr (fish)

Persistence and Degradability: No information available

Bioaccumulative Potential: No information available

Mobility in Soil: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

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14 . TRANSPORT INFORMATION

UN Number**ADG, IATA** 2880**IMDG** 2208**Proper Shipping Name****ADG** CALCIUM HYPOCHLORITE, HYDRATED, ENVIRONMENTALLY HAZARDOUS**IMDG** CALCIUM HYPOCHLORITE MIXTURE, DRY**IATA** CALCIUM HYPOCHLORITE, HYDRATED**Dangerous Goods Class****ADG Class:** 5.1 (O2) Oxidising substances.**IMDG Class:** 5.1 Oxidising substances.**Packing Group:****ADG, IMDG, IATA** II**Marine pollutant:** No**EMS Number:** F-H,S-Q**Limited Quantities:** 1 kg

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

7778-54-3 Hypochlorous acid, calcium salt

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

16 . OTHER INFORMATION

Creation Date: 17.06.2013**Last Revision of MSDS:** Rev 1.1 (16/06/2008)**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

VOC: Volatile Organic Compounds

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

Disclaimer

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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