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FOCUS GRANULAR CHLORINE / POOL FAST GRANULAR CHLORINE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Focus Granular Chlorine / Pool Fast Granular Chlorine
Product Code	-
Other Names	-
Product Use	Swimming pool chemical, algicide, biocide and oxidant.
Company Name	Focus Products Pty Ltd
Address	35 Moreton St Heathwood QLD 4110
Telephone Number	1300 1 36287
Emergency Telephone	0411 623 619 (A/H)

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

Classified as hazardous according to the criteria of Safe Work Australia.

Hazards	Xn - Harmful O - Oxidizing C - Corrosive N - Dangerous for the Environment
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Risk Phrases	R8 - Contact with combustible material may cause fire. R22 - Harmful if swallowed. R31 - Contact with acids liberates toxic gas. R34 - Causes burns. R50 - Very toxic to aquatic organisms.
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Safety Phrases	S 1/2 - Keep locked up and out of the reach of children. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S61 - Avoid release to the environment.
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3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Calcium hypochlorite	7778-54-3	>60%

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4. FIRST AID MEASURES

Inhalation	If inhaled remove victim to fresh air. Apply CPR if victim is not breathing. Administer oxygen if breathing is difficult. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Seek immediate medical attention.
Ingestion	Immediately rinse mouth with water. If swallowed, DO NOT induce vomiting. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin	If skin or hair contact occurs, immediately remove contaminated clothing and wash skin and hair with running water for at least 15 minutes. Seek medical attention if swelling, redness, blistering or irritation occurs.
Eyes	If in eyes, hold eyelids apart and flush the eye continuously with large amounts of water for at least 15 minutes. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.
Suitable Extinguishing Media	Water spray (flooding quantities).
Hazardous Combustion Products	Decomposes on contact with water evolving toxic chlorine gas.
Firefighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	Not combustible. However will support the combustion of other materials like wood, paper or clothing. May react explosively with hydrocarbons (fuels). Containers may explode when heated. Runoff may create fire or explosion hazard. May decompose with explosion when heated or involved in fire.
Hazchem Code	1W

6. ACCIDENTAL RELEASE

Spills	<p>Dry spill: Use clean non-sparking tools to transfer material to a clean, dry plastic container and cover loosely. Move container from spill area.</p> <p>Small liquid spill: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place in a loosely-covered container for later disposal.</p> <p>Large liquid spill: Seek expert advice on handling and disposal.</p>
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7. HANDLING AND STORAGE

Handling	Wear protective clothing. Avoid breathing dust and skin and eye contact while handling the product. Wash exposed areas with soap and water. Ensure good industrial hygiene practice.
Storage	Store in a cool, dry, well ventilated place and out of direct sunlight. Keep containers sealed and dry – material reacts with water. Store away from incompatible materials. Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)	Chlorine: TWA: 1 ppm / 3 Peak limitation STEL: - ppm / - mg/m ³
Engineering Controls	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.
Respiratory Protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits, use a Safe Work Australia approved full face supplied air respirator. See Australian Standards AS/NZS 1715 and 1716 for more information.
Eye Protection	Wear safety glasses with side shields (or goggles) and a face shield. See Australian Standards AS 1336 and AS/NZS 1337 for more information.
Skin Protection	Wear protective gloves and protective clothing appropriate for the risk of exposure. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information.
Hygienic Practices	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White solid
Odour	Pungent, chlorine odour
Solubility in water	Soluble
Boiling Point	No information available.
Melting point	No information available.
Vapour Pressure (mm of Hg @ 25°C)	No information available.
Specific Gravity	2.1
pH	11.5 (5% aqueous solution)
Flash Point	Not applicable
Flammable Limit – Lower	Not applicable
Flammable Limit – Upper	Not applicable

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10. STABILITY AND REACTIVITY

Chemical Stability	Powerful oxidizing agent.
Incompatible Materials	Dichloroisocyanuric acid, ammonium nitrate, trichloroisocyanuric acid or any chloroisocyanurate.
Hazardous Decomposition Products	Toxic chlorine gas.
Hazardous Polymerization Conditions to Avoid	Will not occur. Heat, fire and water.

11. TOXICOLOGICAL INFORMATION

Toxicity	Oral LD ₅₀ (rat) = 850 mg/kg
Routes of Exposure	Inhalation, ingestion, eye and skin
Health effects from likely routes of exposure	<p>Inhalation: Inhaling 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 edema, and pneumonia.</p> <p>Ingestion: Swallowing can result in nausea, vomiting, diarrhea, abdominal pain and chemical burns to the gastrointestinal tract.</p> <p>Eye: A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.</p> <p>Skin: Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.</p>
Effects of Overexposure	No information available.
Existing Conditions	No information available.
Aggravated by Exposure	
Carcinogenicity	This product does NOT contain any IARC listed chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxicity	LC ₅₀ (striped bass larvae) = 0.7g/L / 24 hours Very toxic to aquatic organisms. Expected to be harmful to terrestrial species. Avoid contaminating waterways. This material is biodegradable.
Mobility	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

Classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail (ADG 7).

UN Number	2880
Proper Shipping Name	CALCIUM HYPOCHLORITE, HYDRATED
Dangerous Goods Class	5.1
Subsidiary Risk	Not applicable
Hazchem Code	1W
Packing Group	II
Special Provisions	313,314,322
Limited Quantities	1kg
Packagings & IBCs - Packing Instruction	P002, IBC08
Packagings & IBCs - Special Packing Provisions	PP85, B2, B4, B13
Portable Tanks & Bulk Containers – Instructions	Not applicable
Portable Tanks & Bulk Containers – Special Provisions	Not applicable

15. REGULATORY INFORMATION

Calcium hypochlorite is listed in the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule: 6

16. OTHER INFORMATION

Last Revision of MSDS Rev 1.0 (13/06/2012)
Prepared by MSDS.COM.AU Pty Ltd www.msds.com.au

Abbreviations Used IARC: International Agency for Research on Cancer
STEL: Short term exposure limit
TWA: Time weighted average

Emergency Contacts

Focus Products Pty Ltd	1300 1 36287
Focus Products Pty Ltd – Emergency Number	0411 623 619 (A/H)
Police and Fire Brigade	000
Poisons Information Centre	13 11 26

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Please read instructions / label before using product.

This MSDS is prepared in accord with the Safe Work Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]