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FOCUS STABILISED CHLORINE – POOL FAST STABILISED CHLORINE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Focus Stabilised Chlorine / Pool Fast Stabilised Chlorine
Product Code	-
Other Names	-
Product Use	Active ingredient in dry bleaches, dishwashing compound, scouring powder, detergent sanitizers, swimming pool disinfectants, water and sewage treatment, replacement for calcium hypochlorite.
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 N - Dangerous for the Environment
Risk Phrases	R22 - Harmful if swallowed. R31 - Contact with acids liberates toxic gas. R36/37 - Irritating to eyes and respiratory system. R50 - Very toxic to aquatic organisms. R53 - May cause long-term adverse effects in the aquatic environment.
Safety Phrases	S2 - Keep out of the reach of children. S8 - Keep container dry. S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S41 - In case of fire and/or explosion, do not breathe fumes. S60 - This material and its container must be disposed of as hazardous waste. S61 - Avoid release to the environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Sodium dichloroisocyanurate dehydrate	51580-86-0	100%

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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 eye contact occurs, 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 or water fog in large quantities.
Hazardous Combustion Products	Chlorine and oxygen.
Firefighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	Non combustible but will support combustion of other materials. Decomposes violently upon heating, liberating chlorine and oxygen. Heating can cause rupture of containers.
Hazchem Code	2Z

6. ACCIDENTAL RELEASE

Spills	Isolate area and warn others. Wear fully protective equipment to prevent skin and eye contamination and inhalation of vapours. Where a spill has occurred in a confined space or inadequately ventilated enclosure and material is damp and evolving chlorine, the rate of chlorine evolution can be reduced by covering the thinly spread material with soda ash. Avoid contact between the spill and other material. Do not water to the product. To neutralise the product add sodium sulphite (2.4kg/kg product). If no active chlorine remains, add soda ash (1.1 kg/kg product) to achieve complete neutralisation. Sweep up and into dry plastic sacks or drums for disposal.
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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. Do not store in metal containers as material is corrosive to most metals in the presence of moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)	Chlorine: TWA: 1 ppm / 3 mg/m 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	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	Protective gloves and protective clothing, such as overalls. 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 crystalline powder, granules or tablets
Odour	Chlorine odour
Solubility in water	Soluble (260g/L @ 25°C)
Boiling Point	Not applicable
Melting point	Not applicable
Vapour Pressure (mm of Hg @ 25°C)	Not applicable
Vapour Density (Air = 1)	No information available
Specific Gravity	Not applicable
pH	6-7 (1% aqueous solution)
Flash Point	Not applicable
Flammable Limit – Lower	Not applicable

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10. STABILITY AND REACTIVITY

Chemical Stability	No information available.
Incompatible Materials	No information available.
Hazardous Decomposition Products	Decomposes violently upon heating liberating oxygen and toxic chlorine gas.
Hazardous Polymerization Conditions to Avoid	No information available. No information available.

11. TOXICOLOGICAL INFORMATION

Toxicity	LD ₅₀ (rat) = 1400mg/kg LDLo (human) = 3570 mg/kg
Routes of Exposure	Inhalation, ingestion, eye and skin
Health effects from likely routes of exposure	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. Ingestion: Swallowing can result in nausea, vomiting, diarrhea, abdominal pain and chemical burns to the gastrointestinal tract. Eye: A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury. Skin: Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.
Effects of Overexposure	Prolonged or repeated overexposure may result in many or all of the effects reported for acute exposure.
Existing Conditions Aggravated by Exposure	No information available.
Carcinogenicity	This product does NOT contain any IARC listed chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Very toxic to aquatic organisms and may cause long-term damage in aquatic environments. Keep out of drains and waterways.
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	3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains sodium dichloroisocyanurate, dehydrate)
Dangerous Goods Class	9
Subsidiary Risk	Not applicable
Hazchem Code	2Z
Packing Group	III
Special Provisions	179, 274, 331, 335, AU01
Limited Quantities	5 kg
Packagings & IBCs - Packing Instructions	P002, IBC08, LP02
Packagings & IBCs - Special Packing Provisions	PP12, B3
Portable Tanks & Bulk Containers – Instructions	T1, BK2
Portable Tanks & Bulk Containers – Special Provisions	TP33

15. REGULATORY INFORMATION

Sodium dichloroisocyanurate dihydrate 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)]