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CALCIUM CHLORIDE-CALCIUM CHLORIDE / FOCUS CAL PLUS / POOL FAST HARDNESS INCREASER / OSPA HARDNESS INCREASER

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Calcium Chloride - Calcium Chloride / Focus Cal Plus / Pool Fast Hardness Increaser / OSPA Hardness Increaser
Product Code	-
Other Names	-
Product Use	Binder, coagulant, fire retardant, freezing point depressant, fungicide, preservative and sequestrant.
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. NON DANGEROUS GOODS.

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

Hazards	Xi – Irritant
Risk Phrases	R36 – Irritating to eyes.
Safety Phrases	S2 - Keep out of reach of children. S22 - Do not breathe dust. S24 - Avoid contact with skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Calcium chloride	10043-52-4	74 - 80%
Calcium hydroxide	1305-62-0	<0.25%
Water	7732-18-5	20 -26%

4. FIRST AID MEASURES

Inhalation	If inhaled, move to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest
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Ingestion	until fully recovered. Seek medical advice if symptoms persist. If swallowed rinse mouth thoroughly with water. Give a glass of water. If vomiting occurs give further water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water for at least 15 minutes. Seek medical attention if symptoms persist.
Eyes	If eye contact occurs, hold eyelids apart and flush the eye continuously with running water for at least 15 minutes. Seek 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 fog or if unavailable fine water spray, foam, carbon dioxide, dry chemical powder.
Hazardous Combustion Products	Decomposes on heating, emitting toxic chlorine fumes.
Firefighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	Will not burn or explode. Calcium chloride will corrode most metals exposed to air; attack aluminium (and its alloys) and yellow brass; react with sulphuric acid to form hydrogen chloride which is corrosive; irritating and reactive; give an exothermic reaction with water-reactive materials such as sodium; result in runaway polymerisation reaction with methyl vinyl ether and, in solution form react with zinc (galvanising) to yield hydrogen gas which is explosive.
Hazchem Code	Not allocated.

6. ACCIDENTAL RELEASE

Spills	Clean up immediately to avoid accidents. Wear protective equipment to prevent skin and eye contact. Avoid breathing dust. Work upwind or increase ventilation. Carefully vacuum or sweep up spill and place in suitable containers for reuse or disposal. Wash area down with excess water.
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7. HANDLING AND STORAGE

Handling	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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)

Calcium hydroxide:

TWA: - ppm / 5 mg/m³

STEL: - ppm / - mg/m³

Nuisance dust:

TWA: - ppm / 10 mg/m³

STEL: - ppm / - mg/m³

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 powder

Odour

Odourless

Solubility in water

Soluble (96 @ 20°C)

Boiling Point

No information available.

Melting point

No information available.

Vapour Pressure (mm of Hg @ 25°C)

No information available.

Specific Gravity

2.16

pH

No information available.

Flash Point

Not applicable

Flammable Limit – Lower

Not applicable

Flammable Limit – Upper

Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability

Mildly corrosive to metals. Reacts exothermically on dilution with water.

Incompatible Materials

Calcium chloride will corrode most metals exposed to air; attack aluminium (and its alloys) and yellow brass; react with sulphuric acid to form hydrogen chloride which is

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corrosive; irritating and reactive; give an exothermic reaction with water-reactive materials such as sodium; result in runaway polymerisation reaction with methyl vinyl ether and, in solution form react with zinc (galvanising) to yield hydrogen gas which is explosive.

Hazardous Decomposition Products	Emits toxic chlorine fumes when heated to decomposition.
Hazardous Polymerization Conditions to Avoid	Will not occur. Heat and moisture.

11. TOXICOLOGICAL INFORMATION

Toxicity	Oral LD ₅₀ (rat) = 4220 mg/kg Oral LD ₅₀ (mice) = 3360 mg/kg
Routes of Exposure	Inhalation, ingestion, eye and skin
Health effects from likely routes of exposure	Inhalation: Vapours are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract. Ingestion: Single dose oral toxicity is low. Ingestion may cause gastrointestinal irritation or ulceration. Eye: May cause moderate to severe irritation with corneal injury, which may cause more intense effects as well as thermal burns. Skin: Short single exposure not likely to cause significant skin irritation.
Effects of Overexposure	Prolonged or repeated skin exposure may cause skin irritation and even burns. It may cause a more severe response if skin is damp and/or abraded, or if material remains on the skin. When being dissolved, the heat produced may cause more intense effects as well as thermal burns.
Existing Conditions Aggravated by Exposure	No information available.
Carcinogenicity	This product does NOT contain any IARC listed chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid entry of large amounts of product into sewers, natural waters, and drinking water sources. Avoid contact with vegetation, animals and fish life due to possible harmful effects.
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

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail (ADG 7).

UN Number	Not applicable
Proper Shipping Name	Not applicable
Dangerous Goods Class	Not applicable
Subsidiary Risk	Not applicable
Hazchem Code	Not applicable
Packing Group	Not applicable
Special Provisions	Not applicable
Limited Quantities	Not applicable
Packagings & IBCs - Packing Instruction	Not applicable
Packagings & IBCs - Special Packing Provisions	Not applicable
Portable Tanks & Bulk Containers – Instructions	Not applicable
Portable Tanks & Bulk Containers – Special Provisions	Not applicable

15. REGULATORY INFORMATION

Calcium chloride, calcium hydroxide and water are listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Last Revision of MSDS Rev 2.0 (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)]