



Material Safety Data Sheet

Issue Date: 24th July 2013

Product Name: HY-COLOR CALCIUM INCREASER

Hazardous according to criteria of NOHSC/ASSC.

IDENTIFICATION

Product Name	HY-COLOR Calcium Increaser		
Other Names	Calcium Chloride		
Product Code & Sizes	HYCCALINHP04	4KG	
	HYCCALINSP04	4KG	
Recommended Uses	To increase the hardness of swimming pool water		
Company Name	HY-COLOR AUSTRALIA PTY LIMITED		
Address	178 Power Street, Glendenning, NSW 2761		
Tel / Fax	Ph: (02) 8805 2400 Fax: (02) 8805 2401		
Emergency Contact Number	Business Hours Only (02) 8805 2400. After Hours 0404 859 515 General Information		
24 Hour Emergency Contact	If poisoning occurs, contact a doctor or Poisons Information Centre Australia 131 126 or New Zealand 0800 764 766		

HAZARDS IDENTIFICATION

Hazard Statement

Classified as a hazardous substance according to the criteria of the National Occupational Health and Safety Commission.

UN Number	None allocated
UN Proper Shipping Name	None allocated
Dangerous Goods Class	None allocated
Packing Group	None allocated
Hazchem Code	None allocated

Risk Phrases	R36	Irritating to eyes.
Safety Phrases	S25	Avoid contact with eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/39	Wear suitable protective clothing and eye/face protection.

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	CAS Number	Proportions (%)
Calcium Chloride, Dihydrate	10035-04-8	100

FIRST AID MEASURES

Swallowed	Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If vomiting occurs, give further water. Seek medical advice immediately.
Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
Skin	If skin contact occurs, remove any contaminated clothing and wash skin with running water. If irritation occurs, seek medical advice.
Inhaled	Remove victim from exposure to fresh air – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm and at rest until fully recovered. Seek medical advice if effects persist.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient.

FIRE FIGHTING MEASURES

Hazchem Code	None allocated
Suitable Extinguisher Equipment	In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions. Suitable media may include fine water spray, normal foam, or dry agent such as carbon dioxide or dry chemical powder. Keep containers cool with water spray.
Specific Hazards	Non-combustible solid. Negligible fire hazard when exposed to heat or flame. This product does not burn. Incompatible with methyl vinyl ether, bromine trifluoride, acids, bases, water zinc and sources of ignition. When involved in a fire, this product may generate toxic fumes,

including chlorine, oxides of calcium and calcium hydroxide is formed on reaction with strong bases.

Special Protective Equipment &

Precautions for Fire Fighters: Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trouser, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.

ACCIDENTAL RELEASE MEASURES

Personnel involved in the clean up should wear full protective clothing. Evacuate all unnecessary personnel. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust.

Contain and sweep/shovel up material and transfer to a suitable, labeled container for disposal. If large quantities of this material enter the Waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

HANDLING AND STORAGE

Handling	Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Avoid handling which leads to dust formation. Avoid contact with eyes, skin and clothing. Launder contaminated clothing before re-use. Keep away from moisture and incompatible materials.
Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials. Protect from direct sunlight and moisture.
Incompatibilities	Incompatible with methyl vinyl ether, bromine trifluoride, acids, bases, water zinc and sources of ignition.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards No ingredients in this product have exposure standards, as outlined in the standard *Exposure Standards for Atmospheric Contaminants in the occupational Environment* third edition, published by the National Occupational Health and Safety Commission/AGPS,1995.

Engineering Measures	Natural ventilation should be sufficient. However, if dusts are produced local exhaust ventilation should be used to keep airborne concentrations below exposure limits.
Personal Protection	

Respirator	Wear an effective dust mask (P2filter) where dusts are generated and engineering controls are adequate.
Eyes	Safety glasses with side shields.
Hands	PVC or neoprene gloves. Do not use leather or cotton.
Clothing	Chemical-resistant coveralls and safety footwear.
Biological Limit Values	No information available on biological limits for this product.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to Off White granules
Formula	$\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$
Odour	Odourless
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Boiling Point	>1600°C.
Melting Point	176°C.
Solubility in Water	42.7g/100g Solution.
Specific Gravity	1.85g/cm ³ (25°C) (Water = 1).
Flash Point	Not applicable.
pH	8.0 – 10.0
Lower Explosion Limit	Not applicable.
Upper Explosion Limit	Not applicable.
Ignition Temperature	Not applicable.
Potential for dust explosion	Not applicable.

STABILITY AND REACTIVITY

Chemical Stability	Product is stable under normal conditions of use, storage and temperature. Hygroscopic. Absorbs moisture from the surrounding air.
Conditions to Avoid	Avoid excessive heat, generating dust, direct sunlight, moisture, static charges and high temperatures.
Incompatible Materials	Incompatible with methyl vinyl ether, bromine trifluoride, acids, bases, water zinc and sources of ignition.
Hazardous Decomposition Products	When involved in a fire, this product may generate toxic fumes, including chlorine, oxides of calcium and calcium hydroxide is formed on reaction with strong bases.
Hazardous Reactions	Polymerisation will not occur. Hygroscopic – absorbs moisture from surrounding air. Metals will slowly corrode in aqueous solutions of calcium chloride. Aluminium (and alloys) and yellow brass will be attacked by Calcium Chloride.

TOXICOLOGICAL INFORMATION

No adverse effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposures occurs are:

Acute Effects-

Swallowed	No adverse effects expected, however, large amounts may cause nausea and vomiting.
Eye	An eye irritant
Skin	Prolonged or repeated skin contact may lead to allergic contact dermatitis in some individuals. The skin may react by producing redness, irritation, welts or pustules.
Inhaled	Breathing in dust may result in respiratory irritation.

ECOLOGICAL INFORMATION

Toxicity	No information available on toxicity.
Persistence and Degradability	No information available on persistence/degradability for this product.
Mobility	No information available on mobility for this product. Soluble in water.
Environmental Fate	No information available on Environmental Fate.
Bioaccumulative Potential	No information available on bioaccumulation for this product.

DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of according to relevant local, state and federal government regulations.
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TRANSPORT INFORMATION

UN Number	None allocated
Proper Shipping Name	None allocated
Dangerous Goods Class	None allocated
Packing Group	None allocated
Hazchem Code	None allocated

REGULATORY INFORMATION

Poisons Schedule Not scheduled

ERMA Approval Code HSR003217

CONTACT POINT

Contact

Any advice, recommendation, information, assistance, or service provided by Hy-clor Austalia in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, it is provided with a disclaimer for any liability on the part of Hy-Clor Australia Pty Ltd. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and whether implied by stature, common law, custom of the trade otherwise, are to the extent that the law permits expressly excluded.

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