

Section 1 – Identification of the Material and Supplier

Product Name: Evopure Calcium Increaser
Other Name: Water Hardener
Chemical Nature: Calcium chloride; an inorganic salt.
Product Use: For increasing calcium harness in pool water and preventing etching of pool surfaces.
Creation Date: 1/01/2018
This version issued: 1/01/2023 and is valid for 5 years from this date.

Details of Manufacturer:

Evolution Water & Lighting Solutions Pty Ltd
1/33 Hinkler Drive, Highland Park QLD 4211
Phone: +61 7 5565 0000
Email: enquiries@evolutionwls.com.au

Emergency Telephone Number: 000

Poisons Information Centre: 131 126 in Australia, 0800 764 766 in New Zealand

Section 2 – Hazards Identification

Statement of Hazardous Nature

This product is classified as: Xi, Irritating. Hazardous according to the criteria of SWA.
Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

SUSMP Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

UN Number: None allocated

GHS Signal word: WARNING.

Eye irritation Category 2B

HAZARD STATEMENT:

H320: Causes eye irritation.

PREVENTION

P102: Keep out of reach of children.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

P280: Wear protective gloves, protective clothing and eye or face protection.

P281: Use personal protective equipment as required.

RESPONSE

P353: Rinse skin or shower with water.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

STORAGE

P402+P404: Store in a dry place. Store in a closed container.

DISPOSAL

P501: If product can not be recycled, contact a specialist waste disposal company (see Section 13 of this SDS).



Section 3 – Composition/Information on Ingredients

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Calcium Chloride, Dihydrate	CaCl ₂ .2H ₂ O	10043-52-4	>99%

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non-hazardous ingredients are also possible.

Section 4 – First Aid Measures

General Information: You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 131 126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: No first aid measures are normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact: Remove contaminated clothing and wash affected areas with soap and water. Seek medical attention if symptoms persist. Launder clothing before reuse.

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 medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

Section 5 – Fire Fighting Measures

General Measures: Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from the area if it can be done without risk.

Flammability Conditions: Product is a non-flammable solid.

Extinguishing Media: Not combustible, however, if material is involved in a fire use: Extinguishing media appropriate to surrounding fire conditions.

Fire and Explosion Hazard: Non-combustible material.

Flash Point: Does not burn.

Upper Flammability Limit: Does not burn.

Lower Flammability Limit: Does not burn.

Autoignition Temperature: Does not burn.

Flammability Class: Does not burn.

Section 6 – Accidental Release Measures

Personal Precautions: 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 do not let product reach drains or waterways.

Containment and Clean Up Procedures: Stop leak if safe to do so and contain spill. Cover with damp absorbent (inert material, sand or soil). Vacuum or sweep spilled material and place in an appropriate container for disposal. Avoid generating dust.

Section 7 – Handling and Storage

Handling: Use 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 product 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.

Storage: Make sure that containers of this product are kept tightly sealed / closed. Keep containers dry and away from water. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Check regularly for spills.

Section 8 – Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:
Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

SWA Exposure Limits	TWA (mg/m³)	STEL (mg/m³)
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Exposure limits have not been established by SWA for this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Eye Protection: Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

Skin Protection: You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: cotton, rubber, PVC.

Respirator: If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask.

Section 9 – Physical and Chemical Properties

Appearance:	White crystalline powder. Hygroscopic, this product will absorb water from atmosphere and dissolve in it.
Odour:	Odourless.
Boiling Point:	>1600°C at 100kPa.
Melting Point:	782°C.
Volatiles:	Nil at 100°C.
Vapour pressure:	No data available.
Vapour density:	No data available.
Specific Gravity:	2.15.
pH:	8-10.
Volatility:	No data available.
Flammability:	No data available.
Auto-ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Evaporation rate:	No data available.
Solubility in Water:	Very soluble.

Section 10 – Stability and Reactivity

General: This material is hygroscopic; it will absorb water from the atmosphere and dissolve in it. Reacts exothermically on dilution with water.

Chemical Stability: This material is stable under normal conditions of use, storage and temperature.

Conditions to Avoid: Avoid dust generation. Avoid exposure to humidity. Keep containers sealed / closed and dry.

Hazardous Decomposition Products: None known.

Hazardous Polymerisation: This material will not undergo polymerisation reactions.

Section 11 – Toxicological Information

Toxicity:

LD50/LC50 Values Relevant for Classification
10043-52-4 Calcium Chloride (CaCl ₂)
Oral LD50 1000mg/kg (rat)

Acute Health Effects:

Inhalation: Breathing in dust may result in respiratory irritation.

Skin: Contact with skin may result in irritation.

Eye: An eye irritant.

Ingestion: Swallowing can result in nausea vomiting, diarrhoea and abdominal pain.

Skin Corrosion / Irritation: May result in irritation.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation: Not expected to be a hazard.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: This product does not contain any IARC listed chemicals.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity (STOT) – Single Exposure: Not expected to be a hazard.

Specific Target Organ Toxicity (STOT) – Repeated Exposure: Not expected to be a hazard.

Aspiration Hazard: Not expected to be a hazard.

Section 12 – Ecological Information

Ecotoxicity: Avoid contaminating waterways.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Section 13 – Disposal Considerations

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

Special Precautions for Landfill or Incineration: Consult your state Land Waste Management Authority for more information.

Section 14 – Transport Information

This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 – Regulatory Information

AICS: This product is compliant with NICNAS regulations.

Section 16 – Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG:	Australian Dangerous Goods
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised 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
SDS:	Safety Data Sheet
SWA:	Safe Work Australia
CAS Number:	Chemical Abstracts Service Registry Number
SUSMP:	Standard for the Uniform Scheduling of Medicines and Poisons
AICS:	Australian Inventory of Chemical Substances

Disclaimer:

This Safety Data Sheet (SDS) is prepared in accord with the Safe Work Australia document "Preparation of Safety Data Sheets for Hazardous Chemicals, Code of Practice, February 2016".

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