

Material Safety Data Sheet

Issue date: March 2014

Hazardous according to criteria of Worksafe Australia

CALCIUM SUP

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY DETAILS:

Aquasonic Pty Ltd
14 Commerce Street
WAUCHOPE NSW 2446

Contact Details in case of emergency

Australian Poison Information Centre (in any state) 131126

Company Contact for information regarding Calcium SUP

Phone : +61 2 65864933

Fax: +61 2 65864944

Aquaculture Enquiries Email: aquaculture@aquasonic.com.au

Aquarium Enquiries Email: aquarium@aquasonic.com.au

PRODUCT DETAILS:

Product Name: Calcium chloride SUP

Use: Used as calcium supplement in aquariums and fish tanks.

Dangerous Goods Class: Not classified

Subsidiary risk: None allocated

Packing Group: III

Hazchem Code: 2Z

2. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME

Calcium Chloride dihydrate
Purified Water

Proportion

40% w/v
To 100%

CAS Number

10043-52-4

3. HAZARD IDENTIFICATION

SAFTY DATA Ratings (Provided here for your convenience)

Health Rating: 1 - Slight

Flammability Rating: 0 - None

Reactivity Rating: 2 - Moderate

Contact Rating: 3 – Slight

Storage Colour Code- green

Potential Health Effects

Inhalation:

Liquid material does not pose a significant inhalation hazard, but inhalation of dried powder from the solution dust may cause irritation to the respiratory tract, with symptoms of coughing and shortness of breath.

Ingestion:

Low toxicity material but ingestion may cause some irritation to the mucous membranes. Large amounts could cause gastrointestinal upset, vomiting, abdominal pain.

Skin Contact:

Liquid solution in contact with moist skin may cause minor irritation.

Eye Contact:

Hazard may be caused by chloride irritation.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation: Not applicable.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Wipe off liquid from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. Fire Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. At high temperatures or when moistened under fire conditions, calcium chloride may produce toxic or irritating fumes.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Wet sweeping may be used. Small amounts of liquid may be flushed to sewer with plenty of water.

7. Handling and Storage

Keep in a tightly closed container. Protect against physical damage. Concentrated solutions of calcium chloride can corrode steel. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to liquid or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles and/or full face shield where splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Other Control Measures:

Maintain good housekeeping in work area. Liquid spills on floors and other surfaces may cause the surfaces to become slippery and present safety hazards.

9. Physical and Chemical Properties

Appearance: Clear, nearly colourless solution.

Odor: Odorless.

Solubility: Freely miscible with water.

Density: ca 1.7

pH: 8 - 9 Aqueous solution

Boiling Point: about 110C

Melting Point: Not applicable

Vapor Density (Air=1): No information found.

Vapor Pressure (mm Hg):No information found.

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Emits toxic chlorine fumes when heated to decomposition. May form hydrogen chloride in presence of sulfuric or phosphoric acids or with water at elevated temperatures.

Hazardous Polymerization: Will not occur.

Incompatibilities: Methyl vinyl ether, water, zinc, bromine trifluoride, mixtures of lime and boric acid, barium chloride, and 2-furan percarboxylic acid. Metals will slowly corrode in aqueous calcium chloride solutions. Aluminum (and alloys) and yellow brass will be attacked by calcium chloride solution.

Conditions to Avoid:

Incompatibles.

11. Toxicological Information

Oral rat LD50: 2.50 mLs/kg. Investigated as a tumorigen and mutagen.

Ingredient category	Known	---NTP Carcinogen---		IARC
		Anticipated		
Calcium Chloride (10043-52-4)	No	No		None

12. Ecological Information

Environmental Fate:

Based on available information for Calcium Chloride solution, this material will not biodegrade or bioaccumulate.

Environmental Toxicity: The LC50/96-hour values for fish are over 200 mg/l.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: **1** Flammability: **0** Reactivity: **1**

Label Hazard Warning:

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.
HARMFUL IF SWALLOWED

Label Precautions:

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing dust. Keep container closed. Use only with adequate ventilation.

Label First Aid: If swallowed contact a doctor or Poisons Information 131126. There should be no immediate danger. Drink plenty of water to dilute out the solution of calcium chloride. Never give anything by mouth to an unconscious person. In case of contact, wipe off excess material from skin then immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases, get medical attention.

Product Use:

Calcium supplement for use in fish tanks and aquariums.

Revision Information:

No Changes.

Contact Point

Aquasonic Pty Ltd
14 Commerce Street
Wauchope NSW 2446
Phone: +61 2 65864933

Disclaimer

The information herein is to the best of our knowledge, correct and complete. It describes the safety requirements for this product and should not be construed as guaranteeing specific properties. Since methods and conditions are beyond our control we do not accept liability for any damages resulting from the use of, or reliance on, this information in inappropriate contexts.

Prepared March 2014