

**MATERIAL SAFETY DATA SHEET**

**VIVANTIS TECHNOLOGIES SDN BHD  
REVONGEN CORPORATION CENTER**

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**SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: PC0904-500g

Product Name: Calcium Chloride

**Intended Use:**

For research use only. Not for use in diagnostic procedures.

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**Company Manufacturing:**

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**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	%
Calcium chloride	10043-52-4	95-100

Synonyms: Calcium dichloride dehydrate; Cal Plus; Replenisher (Calcium)

**SECTION 3: HAZARDS IDENTIFICATION**

**GHS Classification**

Skin corrosion/irritation - Category 2

Eye irritation - Category 2

**GSH Label elements, including precautionary statements:**



Signal word: Warning

**Hazard statements**

- H315 Causes skin irritation
- H319 Cause serious eye irritation
- H335 May cause respiratory irritation

**Precautionary statements**

- P280 Wear protective gloves/ clothing/ eye and face protection.
- P302 + P352 If on skin, wash with plenty of soap and water.
- P304 + P340 If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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## **SECTION 4: FIRST-AID MEASURES**

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

In case of skin contact, wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

In case of inhalation, move to fresh air. If breathing becomes difficult, give oxygen.

In case of ingestion, rinse mouth with water and drink plenty of water afterwards.

## **SECTION 5: FIRE FIGHTING MEASURES**

Not flammable.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use carbon dioxide, dry chemical water spray or regular foam.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH and full protective gear.

Hazardous decomposition products formed under fire conditions: Hydrogen chloride gas

Flash point: Not determined

Explosion data – sensitivity to mechanical impact: Not sensitive.

Explosion data – sensitivity to static discharge: Not sensitive.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

For personal protection, use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Evacuate personnel to safe areas.

For environmental precautions, prevent further leakage or spillage if safe to do so.

For cleaning up, pick up and transfer to properly labeled containers. After material pickup is completed, ventilate area and wash spill site.

## **SECTION 7: HANDLING AND STORAGE**

Handle in accordance with good industrial hygiene and safety practice.

Keep container tightly closed in a dry and well-ventilated place.

Incompatible with strong acids and bromine trifluoride.

Hygroscopic – Protect from moisture.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory protection	Irritation is experienced if exceeded exposure limits. NIOSH/MSHA approved respiratory protection should be worn at all time. In case of exposure to high airborne contaminant concentrations, positive pressure-supplied air respirators may be required. Respiratory protection must be provided in accordance with current local regulations.
Skin and body protection	Wear protective gloves/clothing.
Eye/Face protection	Tightly fitting safety goggles.

Use engineering measures such as showers, eyewash stations and ventilation systems.  
Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	White
Physical state:	Fine powder
Odor:	No information available
Odor threshold:	No information available
Density:	No information available
pH:	No information available
Melting point:	No information available
Freezing point:	No information available
Initial Boiling point:	No information available
Boiling point:	No information available
Flash point:	Not applicable
Autoignition temperature:	No data available
Decomposition temperature:	No information available
Upper Flammability limit in air:	No data available
Lower Flammability limit in air:	No data available
Explosive properties:	No information available
Oxidizing properties:	No information available
Solubility:	No information available
Partition coefficient (n-octanol/water):	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Evaporation rate:	No data available
Specific gravity:	0.835
Viscosity:	No information available

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## **SECTION 10: STABILITY AND REACTIVITY**

Stable under recommended storage conditions.

Materials to avoid: Strong acids. Attacked by bromine trifluoride.  
Hazardous decomposition products: Hydrogen chloride.  
Hazardous polymerization: Hazardous polymerization does not occur.  
Conditions to avoid: Hygroscopic.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **Acute toxicity:**

Oral LD50: Rat – 1000 mg/kg

Dermal LD50: Rat – 2630 mg/kg

### **Chronic Toxicity**

No known effect based on the information supplied.

Target organ effects: None known.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **Ecotoxicity:**

The environmental impact of this product has not been fully investigated

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose waste material in accordance with all federal, state and local environmental regulations.  
For contaminated packing, dispose as waste material.

## **SECTION 14: TRANSPORT INFORMATION**

### **DOT (US)**

Not regulated

### **IATA**

Not regulated

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**SECTION 15: REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	Does not comply
<b>EINECS/ELINCS</b>	Does not comply
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Does not comply
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**U.S. Federal Regulations**

**SARA 313** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulation, Part 372:

**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

**U.S. State Regulations**

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

**International Regulations**

**Mexico – Grade** No information available.

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**WHMIS Hazard Class**

D2B Toxic materials

**SECTION 16: OTHER INFORMATION**

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