

## MATERIAL SAFETY DATA SHEET

VIVANTIS TECHNOLOGIES SDN BHD REVONGEN CORPORATION CENTER 12A, Jalan TP5, Taman Perindustrian UEP, 47600 Subang Jaya, Selangor, Malaysia.

For Information:

Tel: +603-8025 1603 Email: info@vivantechnologies.com Fax: +603-80351637 / 1354 URL: www.vivantechnologies.com

Document No.: MSDSrev03\_PC0904

Date prepared: 1<sup>st</sup> December 2018 Reviewed: 2<sup>nd</sup> January 2019

**SECTION 1: CHEMICAL IDENTIFICATION** 

Code: PC0904-500G Name: Calcium Chloride

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

Chemical Name: CAS: %.
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

Pairing Nature with Scientific Discoveries

47600 Subang Jaya, Selangor Darul Ehsan, Malaysia.



## **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.

## **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.

Pairing Nature with Scientific Discoveries

47600 Subang Jaya, Selangor Darul Ehsan, Malaysia.



## **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.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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 No information available Odor threshold: Density: No information available No information available pH: 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

Pairing Nature with Scientific Discoveries



Vapor density: No data available Evaporation rate: No data available

Specific gravity: 0.835

Viscosity: No information available

# **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

Pairing Nature with Scientific Discoveries



## **SECTION 15: REGULATORY INFORMATION**

# **International Inventories**

TSCA Does not comply EINECS/ELINCS Does not comply

**ENCS** Complies **IECSC** Complies

**KECL** Does not comply

PICCS Complies AICS 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 th 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.

# **WHMIS Hazard Class**

D2B Toxic materials



Pairing Nature with Scientific Discoveries



## **SECTION 16: OTHER INFORMATION**

The information contained in this MSDS relates only to the material(s) designed and does not relate to use(s) in combination with any other material, process(es) and /or chemical reaction(s). Vivantis Technologies Sdn. Bhd. provides this information in good faith, from sources believed to be accurate; however, Vivantis assumes no liability for its accuracy or completeness, and thus shall not be held liable for any damage resulting from handling or from contact with the above product.

All Vivantis products are supplied for manufacturing, research and laboratory use only. Researchers and laboratory personnel intending to use any of these products for medical investigation on human are solely responsible for such use and for compliance with the pertinent regulations of the United States Food & Drug Administration (US-FDA) and other regulations. We do not assume liability for damages resulting from the handling, use and/or disposal of these products, from their use in violation of patent or other rights or reliance upon this information.

Pairing Nature with Scientific Discoveries

F: +6 03 8025 1637