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1. IDENTIFICATION

Product Name Calcium Lactate

Other Names 2-Hydroxypropanoic acid calcium salt, pentahydrate; Calcium lactate, anhydrous [CAS#814-80-2]; Lactic acid calcium salt

(2:1), pentahydrate; Propanoic acid, 2-hydroxy-, calcium salt (2:1), pentahydrate [CAS#5743-47-5]

Uses Mineral supplement, speciality chemical.

Chemical Family No Data Available **Chemical Formula** C6H10CaO6.5H2O

Chemical Name Calcium lactate, pentahydrate

Product Description No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Location Telephone Organisation

Jiangsu Khonor Chemicals Rm 1902 Easey Comm Bldg, 253-261, Hennessy RD Co.,Limited

Wanchai HK

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation Location Telephone

Jiangsu Khonor Rm 1902 Easey Comm Bldg,

Chemicals Co., 253-261, Hennessy RD

Limited Wanchai HK

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled





Globally Harmonised System

Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Signal Word None

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Calcium lactate, pentahydrate	C6H10CaO6.5H2O	63690-56-2	>=98 %
Water	H20	7732-18-5	Balance %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then give a glass of water to drink. Do not induce vomiting unless directed to do so by

medical personnel. If vomiting occurs, give further water. Get medical advice/attention if you feel unwell.

Eye IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting

the upper and lower eyelids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If

eye irritation persists, get medical advice/attention.

Skin IF ON SKIN: Remove and isolate contaminated clothing and shoes. Flush skin with running water/shower. If skin irritation

occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms

persist, get medical advice/attention.

Advice to Doctor Treat symptomatically. Show this safety data sheet (SDS) to the doctor in attendance.

 $\label{lem:medical conditions Aggravated by} \ \ \mbox{No information available}.$

Exposure

5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions Combustible solid; may burn but does not ignite readily.

Extinguishing Media Use dry chemical, Carbon dioxide, foam or water spray for extinction.

Fire and Explosion Hazard Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

Fire may produce irritating and/or toxic gases, including Carbon oxides.

Hazardous Products of

Combustion

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may cause pollution.

Personal Protective Equipment Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

Flash Point No Data Available **Lower Explosion Limit** No Data Available **Upper Explosion Limit** No Data Available **Auto Ignition Temperature** No Data Available **Hazchem Code** No Data Available

6. ACCIDENTAL RELEASE MEASURES

Ensure adequate ventilation. ELIMINATE all ignition sources (if dust clouds can occur). Do not touch or walk through **General Response Procedure**

spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures Sweep or vacuum up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal

(see SECTION 13).

Containment Stop leak if safe to do so. Prevent dust cloud. Decontamination After cleaning, flush away traces with water.

Environmental Precautionary

Measures

Evacuation Criteria

Prevent entry into drains and waterways. If contamination of sewers or waterways has occurred, advise local emergency

Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Personal Precautionary Measures Use personal protective equipment (see SECTION 8).

7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation, especially in confined areas. Handle in accordance with good industrial hygiene and safety practice. Minimise dust generation and accumulation. Avoid breathing dust and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment (see SECTION 8). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or

inert atmospheres.

Storage Keep in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed when not in use - check

regularly for spills. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials

(see SECTION 10).

Container Plastic, paper, fibre drums or boxes.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No specific exposure standards are available for this product. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust).

- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable dust).

Exposure Limits No Data Available **Biological Limits** No information available.

Engineering Measures 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.

Personal Protection Equipment

- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust mask/particulate respirator (refer to AS/NZS 1715 & 1716).
- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses.
- Hand protection: Handle with gloves. Recommended: Impervious gloves.
- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Overalls,

safety shoes.

Special Hazards Precaustions

No information available.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance Powder/agglomerate/granular

OdourSlight/noneColourWhite

pH 6.0 - 8.0 (10% aqueous solution)

Vapour PressureNo Data AvailableRelative Vapour DensityNo Data AvailableBoiling PointNo Data Available

Melting Point >200 °C

Freezing Point No Data Available

Solubility Soluble in water (6 - 9 g/100 g water) 25°C

Specific GravityNo Data AvailableFlash PointNo Data AvailableAuto Ignition TempNo Data AvailableEvaporation RateNo Data AvailableBulk Density300 - 500 kg/m3Corrosion RateNo Data Available

Decomposition Temperature >200 °C

Density No Data Available **Specific Heat** No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available Vapour Temperature No Data Available Viscosity No Data Available **Volatile Percent** No Data Available **VOC Volume** No Data Available

Additional Characteristics Explosion limits:

> - Min. ignition energy: >8,700 mJ - Min. ignition temperature: 610 °C - Max. explosion over-pressure: 5.1 bar - Max. pressure increase rate: 105 bar/s - Dust explosion constant: 29 bar m/s

- Dust explosion class: ST 1

Potential for Dust Explosion

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard.

Fast or Intensely Burning

Characteristics

No information available.

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could

Contribute Unusual Hazards to a

Fire

No information available.

Properties That May Initiate or Contribute to Fire Intensity

Combustible solid; may burn but does not ignite readily.

Reactions That Release Gases or

Vapours

Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides.

Release of Invisible Flammable

Vapours and Gases

No information available.

10. STABILITY AND REACTIVITY

General Information No information available. **Chemical Stability** Stable under normal conditions.

Conditions to Avoid Avoid generating dust. Keep away from heat and sources of ignition.

Materials to Avoid Incompatible/reactive with strong oxidising agents.

Hazardous Decomposition

Products

Fire/decomposition may produce irritating and/or toxic gases, including Carbon oxides.

Hazardous Polymerisation Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

General Information Information on possible routes of exposure:

- Ingestion: No adverse effects expected; however, large amounts may cause nausea and vomiting. - Eye contact: May cause eye irritation with susceptible persons. May cause physical irritation to the eyes.
- Skin contact: Repeated or prolonged skin contact may lead to irritation. - Inhalation: Breathing in dust may cause irritation of respiratory tract.

Long-term effects: Did not show carcinogenic effects in animal experiments. Based on tests with L-lactic acid and its salts, there is no evidence to suggest carcinogenic nor mutagenic properties from lactic acid itself nor from the lactate portion

*Health injuries are not known or expected under normal use.

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecological injuries are not known or expected under normal use.

Ecotoxicity

Persistence/Degradability Product is a salt of lactic acid which is readily biodegradable.

Mobility Completely soluble.

Environmental Fate Slightly hazardous to water - Prevent entry into drains and waterways.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information Dispose of contents/container in accordance with local/regional/national regulations.

*Can be landfilled or incinerated, or can be disposed as waste water, when in compliance with local regulations.

Special Precautions for Land Fill After cleaning, empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name Calcium Lactate

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name Calcium Lactate
Class No Data Available
Subsidiary Risk(s) No Data Available
No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name Calcium Lactate

Class No Data Available

Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (United States of America)

US DOT

Proper Shipping NameCalcium LactateClassNo Data AvailableSubsidiary Risk(s)No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

IMDG Code

Proper Shipping Name Calcium Lactate Class No Data Available Subsidiary Risk(s) No Data Available **UN Number** No Data Available No Data Available Hazchem **Pack Group** No Data Available **Special Provision** No Data Available **EMS** No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport

IATA DGR

Proper Shipping NameCalcium LactateClassNo Data AvailableSubsidiary Risk(s)No Data AvailableUN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information No Data Available
Poisons Schedule (Aust) Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Hazardous

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Listed

Canada (NDSL) Not Listed

China (IECSC) Listed

Europe (EINECS) 212-406-7

Europe (REACh) Listed

Japan (ENCS/METI) Listed

Korea (KECI) Listed

Malaysia (List of Classified Substances) Not Listed

New Zealand (NZIoC) Listed

Philippines (PICCS) Listed

Taiwan (TCSI) Listed

USA (TSCA) Listed

Mexico (INSQ) Not Determined

16. OTHER INFORMATION

Related Product Codes CALACT1000, CALACT1001, CALACT1002, CALACT1003, CALACT1004, CALACT2000, CALACT2100, CALACT3000,

CALACT3001, CALACT3002, CALACT3100, CALACT3101, CALACT3150, CALACT4000, CALACT4001, CALACT4100,

CALACT5000, CALACT9000

Revision 4

Revision Date 10 Jun 2022

Key/Legend < Less Than
> Greater Than

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square Centimetres

CO2 Carbon Dioxide

COD Chemical Oxygen Demand

deg C (°C) Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/I Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH20 Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

Ib Pound

LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m3 Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight