



## Safety Data Sheet

Date of Issue: 8.09.2021

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### 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Company Name** : ECP Limited  
**Address** : PO Box 34125, Birkenhead, Auckland 0746  
**Telephone** : +64 9 480 4386  
**Facsimile** : +64 9 480 4385  
**Emergency phone number** : 0800 243 622 (24 hours)

<b>Product Name</b>	Calcium gluconate gel
<b>Product Code</b>	3481
<b>CAS No.</b>	299-28-5

**Recommended use** : Laboratory Investigations

### 2: Hazard's identification

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 3: Composition/information on ingredients

#### 3.1 Substances

**Synonyms** : 2,3,4,5,6-Pentahydroxycaproic Acidhemicalcium salt  
Gluconic acidhemicalcium salt  
Calcium D-gluconate  
**Formula** : C<sub>12</sub>H<sub>22</sub>CaO<sub>14</sub>  
**Molecular weight** : 430,37 g/mol  
**CAS-No.** : 299-28-5

### 4: First aid measures

#### 4.1 Description of first aid measures

##### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

##### In case of skin contact

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

**5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Calcium oxide

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available

**6: Accidental release measures****6.1 Personal precautions, protective equipment, and emergency procedures**

Avoid dust formation. Avoid breathing vapours, mist or gas.

**6.2 Environmental precautions**

No special environmental precautions required.

**6.3 Methods and materials for containment and cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7: Handling and storage****7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed.

**7.2 Conditions for safe storage, including any incompatibilities**

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

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8: Exposure controls/personal protection****8.1 Control parameters**

Components with workplace control parameters

## 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

### Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

### Control of environmental exposure

No special environmental precautions required.

## 9: Physical and chemical properties

### a) Appearance

Form

Colour

: powder

b) Odour

: white

c) Odour Threshold

: No data available

d) Ph

: No data available

e) Melting

point/freezing point

: No data available

f) Initial boiling point  
and boiling range

: No data available

g) Flash point

: No data available

h) Evaporation rate

: No data available

i) Flammability (solid, gas)

: not applicable

j) Upper/lower flammability or

explosive limits Upper explosion limit

: No data available

Lower explosion limit

k) Vapor pressure

: No data available

l) Vapor density

: No data available

m) Relative density

: No data available

g/cm<sup>3</sup> (25 °C)

n) Water solubility

: No data available

o) Partition coefficient n-octanol/water log Pow	: No data available
p) Autoignition temperature	: No data available
q) Decomposition temperature	: 100 °C –
r) Viscosity	: No data available
s) Explosive properties	: No data available
t) Oxidizing properties	: No data available

## 9.2 Other safety information

No data available

## 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Calcium Oxide

## 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Intravenous - Rat - 950 mg/kg

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS: Not available

**12: Ecological information****12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

No data available

**13: Disposal considerations****13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

**14: Transport Information Table**

	<b>ADR/RID – European packaging certification</b>	<b>IMDG International Maritime Dangerous Goods Code</b>	<b>IATA – DGR International Air Travel Association – Dangerous Goods Regulations</b>

14.1	UN Number	-	-	-
14.2	UN Proper Shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3	Transport Hazard Class	-	-	-
14.4	Packaging group	-	-	-
14.5	Environmental Hazards	no	no	no
14.6	Special precautions for user	No data available		

## 15: Regulatory information

### 15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

## 16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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