

# SAFETY DATA SHEET

Creation Date 02-Sep-1997

Revision Date 24-Dec-2021

**Revision Number** 4

1. Identification

**Product Name** 

## Calcium lactate pentahydrate

Lactic acid, calcium salt

Cat No. : C110-500

Synonyms

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

**Emergency Telephone Number** 

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

## **Classification**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients						
Component CAS No Weight %						

Propanoic acid, 2-hydroxy-, calcit	um salt (2:1)	814-80-2	100				
	4. Firs	st-aid measures					
Eye Contact	e Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Ge medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.						
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.						
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.						
Most important symptoms and effects	None reasonably	foreseeable.					
Notes to Physician	Treat symptomatically						

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	Not applicable No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available
Sensitivity to Static Discharge	No information available

### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

## **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Calcium oxides. **Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 1	Flammability 1	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	formation.	n. Use personal protective equi	
Environmental Precautions	Should not be released int Information.	o the environment. See Section	12 for additional Ecological

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

7. Handling and storage						
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.					
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.					
8. E	xposure controls / personal protection					
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.					
Engineering Measures	None under normal use conditions.					
Personal Protective Equipment						
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.					
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.					
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.					
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.					

9. Physical	9. Physical and chemical properties						
Physical State	Solid						
Appearance	White						
Odor	Odorless						
Odor Threshold	No information available						
рН	No information available						
Melting Point/Range	240 °C / 464 °F						
Boiling Point/Range	No information available						
Flash Point	Not applicable						
Evaporation Rate	Not applicable						
Flammability (solid,gas)	No information available						
Flammability or explosive limits							
Upper	No data available						
Lower	No data available						
Vapor Pressure	negligible						
Vapor Density	Not applicable						
Specific Gravity	No information available						
Solubility	Slightly soluble in water						
Partition coefficient; n-octanol/water	No data available						
Autoignition Temperature	No information available						
Decomposition Temperature	No information available						
Viscosity	Not applicable						
Molecular Formula	C6H10O6Ca.5H2O						
Molecular Weight	308.29						

## 10. Stability and reactivity

None known, based on information available

Stability

Stable under normal conditions.

Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.						
Incompatible Materials	Strong oxidizing agents						
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO2), Calcium oxides						
Hazardous Polymerization	Hazardous polymeriz	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal p	None under normal processing.					
	11. Toxicol	ogical info	ormation				
Acute Toxicity		5					
Product Information Component Information	No acute toxicity info	ormation is availa	able for this product				
Component	LD50 Oral		LD50 Dermal	1 C 50	Inhalation		
Propanoic acid, 2-hydroxy-, calcium	Not listed		2000 mg/kg (Rabbit)		mg/L (Rat)4h		
salt (2:1)				2030 > 7.94	ing/E (Rat) 4 n		
Toxicologically Synergistic	No information availa	able					
Products							
Delayed and immediate effects as w	ell as chronic effect	s from short an	d long-term expos	ure			
Irritation	No information availa	able					
Sensitization	No information availa	able					
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Propanoic acid, 814-80-2 2-hydroxy-, calcium salt (2:1)	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects	No information availa	ahle					
Reproductive Effects	No information availa	able.					
Developmental Effects	No information available.						
Teratogenicity	No information available.						
STOT - single exposure STOT - repeated exposure	None known None known						
Aspiration hazard	No information availa	able					
Symptoms / effects,both acute and delayed	No information availa	able					
Endocrine Disruptor Information	No information availa	able					
Other Adverse Effects	The toxicological pro	perties have not	been fully investiga	ited.			
	12. Ecolog	gical infor	mation				
Ecotoxicity Do not empty into drains.							
Persistence and Degradability	Soluble in water Pers	sistence is unlike	ely based on informa	ation available.			
<b>Bioaccumulation/ Accumulation</b>	No information availa	able.					

Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations							
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is hazardous waste. Chemical waste generators must also consult local, region national hazardous waste regulations to ensure complete and accurate class							
14. Transport information							
DOT	Not regulated						
TDG	Not regulated						
IATA	Not regulated						
IMDG/IMO	Not regulated						

15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Propanoic acid, 2-hydroxy-, calcium salt (2:1)	814-80-2	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Propanoic acid, 2-hydroxy-,	814-80-2	Х	-	212-406-7	Х	Х	Х	Х	Х	KE-20846
calcium salt (2:1)										

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know	Not applicable

## Regulations

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

## Authorisation/Restrictions according to EU REACH

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Propanoic acid, 2-hydroxy-, calcium salt (2:1)	814-80-2	Not applicable	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Propanoic acid, 2-hydroxy-, calcium salt (2:1)	814-80-2	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	02-Sep-1997 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## End of SDS