

Safety Data Sheet

#31685470 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
Calcium D-saccharate tetrahydrate	5793-88-4	C ₆ H ₈ CaO ₈ · 4H ₂ O	10	14 Aug 2026

SECTION 1

Identification

Product name	Calcium D-saccharate tetrahydrate
CAS number	5793-88-4
Chemical formula	C ₆ H ₈ CaO ₈ · 4H ₂ O
Molecular weight	320.26
SMILES	[C@H]([C@@H]([C@@H](C(=O)[O-])O)O)([C@H](C(=O)[O-])O)O.[Ca+2]
EC / EINECS number	227-334-1
Recommended use & restrictions	For research and development. Laboratory chemicals. Manufacture of substances. Not suitable for human or veterinary purposes.
Emergency telephone	0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification



WARNING

CODE	HAZARD STATEMENT
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
CODE	PRECAUTIONARY STATEMENT
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves/protective clothing/eye protection/face protection
P302+352	IF ON SKIN: Wash with soap and water
P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
Other hazards (e.g. PBT / vPvB, not classified)	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.

SECTION 3

Composition / information on ingredients

Purity / concentration	~100%
Impurities / stabilising additives	Not applicable

SECTION 4

First-aid measures

Inhalation	Fresh air.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower.
Eye contact	Rinse out with plenty of water. Remove contact lenses.
Ingestion	Make victim drink water (two glasses at most). Consult doctor if feeling unwell.
Symptoms / effects & medical attention	Treat symptomatically

SECTION 5

Fire-fighting measures

Suitable extinguishing media	Use measures appropriate to local circumstances
Unsuitable extinguishing media	No specific firefighting procedure given
Special hazards	Carbon oxides, Calcium oxide
Advice for firefighters	In the event of fire, wear self-contained breathing apparatus.

SECTION 6

Accidental release measures

Personal precautions & PPE	Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
Environmental precautions	Do not let product enter drains.
Containment & clean-up methods	Cover drains. Collect, bind, and pump off spills. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

Storage temperature	Ambient
Precautions for safe handling	For precautions see section 2.2.
Conditions for safe storage (incompatibilities)	Tightly closed. Dry.

SECTION 8

Exposure controls / personal protection

Occupational exposure limits (OEL / WEL)	<i>Not applicable</i>
DNEC/PNEC data	<i>Not applicable</i>
Eye / face protection	Safety glasses Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Handle with gloves. Nitrile rubber, minimum layer thickness 0.11 mm, break through time 480 min.
Respiratory protection	Dust mask (FFP2/FFP3) Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.

SECTION 9

Physical & chemical properties

Density (g/mL)	1 g/mL DERIVED FROM: LITERATURE
Flash point	Not applicable
Acidity	Base DERIVED FROM: LITERATURE
Appearance / physical state	Powder DERIVED FROM: LITERATURE
Colour	White DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	Not applicable
Boiling point	Not applicable
Solubility (water)	No data available
pH	Not applicable
Vapour pressure	Not applicable
Partition coefficient (log Pow)	Not applicable
Auto-ignition / decomposition temp	Not applicable

SECTION 10

Stability & reactivity

Chemical stability / reactivity	The product is chemically stable under standard ambient conditions (room temperature).
Conditions to avoid	The product is chemically stable under the recommended storage conditions.
Incompatible materials	No data available.
Hazardous decomposition products	In the event of fire: see section 5.

SECTION 11

Toxicological information

Acute toxicity (LD50 / LC50)	No data available.
Skin corrosion / irritation	No data available.
Eye corrosion / irritation	No data available.
Respiratory / skin sensitisation	No data available.
Carcinogenicity	No data available.
Mutagenicity	No data available.
Reproductive toxicity	No data available.
STOT (single / repeated exposure)	No data available.
Aspiration hazard	No data available.
Endocrine disruptors	This product does not contain any known or suspected endocrine disruptors

SECTION 12

Ecological information

Aquatic toxicity	<i>Not applicable</i>
Persistence & degradability	<i>Not applicable</i>
Bioaccumulative potential	<i>Not applicable</i>
Mobility in soil	<i>Not applicable</i>
PBT / vPvB assessment	<i>Not applicable</i>

SECTION 13

Disposal considerations

Waste treatment / disposal methods	Waste material must be disposed of in accordance with the national and local regulations; leave chemicals in original containers; no mixing with other waste; handle uncleaned containers like the product itself.
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SECTION 14

Transport information

UN number	Not applicable
Proper shipping name	Not applicable
Class	Not applicable
Packing group	Not applicable
Transport category	Not applicable
Tunnel code	Not applicable
Packing instruction (ADR)	Not applicable
Packing instruction (IMDG)	Not applicable
Environmental hazards	no
Special precautions for user	Not applicable

SECTION 15

Regulatory information

REACH code	Y110
UFI code	Not applicable
ECHA notification	Not applicable
Chemical safety assessment carried out?	Not required

SECTION 16

Other information

Revision notes / other information	Not applicable
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