



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name : Calcium L-Threonate
Synonyms: L-Threonic acid hemicalcium salt
CAS No. : 70753-61-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, manufacture of substances.

1.3 Details of the supplier of the safety data sheet

Company: Aurora Industry Co.,Ltd.
Tel: 0411-82288674
Address: Room 7033, No.9-1, Haifu Road, Dalian Free Trade Zone, China

2. COMPOSITION, IDENTIFICATION INGREDIENTS

Composition:

Chemical name:	CAS #	Purity:
(2R,3S)-2,3,4-Trihydroxybutyric acidhemicalcium salt	70753-61-6	100%

3. HAZARDS IDENTIFICATION

Emergency overview: No data found

GHS hazard category: It is not a hazardous substance or mixture according to GHS.

Label element:

Pictograph: No data found

Risk Phrases: No data found

Hazard statement: No data found

Precautionary statements:

Precautionary measures: No data found

Incident response: No data found

Safe storage: No data found

Physical and chemical hazards: No data found

Health Risks: No data found

Environmental hazards: No data found

4. FIRST AID MEASURES

Inhalation: If inhaled, remove victim to fresh air.

Skin contact: Remove contaminated clothing and rinse skin thoroughly with soapy



water and clean water. Seek medical advice if you feel unwell.

Eyes: Separate eyelids and rinse with running water or normal saline. Seek immediate medical attention.

Ingestion: Gargle and forbid vomiting. Seek immediate medical attention.

Notes to rescuers: Move the patient to a safe location. Consult your doctor. Show this chemical safety technical specification to the doctor on site.

Notes to physician: No data found

5. FIRE FIGHTING MEASURES

Extinguishing media: Extinguish fire with water mist, dry powder, foam or carbon dioxide extinguisher. Avoid using straight running water to extinguish fires. Straight running water may cause splashes of flammable liquids and spread the fire.

General information: Fire fighters are required to wear breathing apparatus and full body fire fighting clothing to fight fire upwind. If possible, move containers from the fire to an open area. No extraneous personnel are allowed to enter. Receive and treat fire water to prevent environmental pollution.

6. ACCIDENTAL RELEASE MEASURES

Protective measures, protective equipment and emergency handling procedures for operators: Emergency personnel are advised to wear air-carrying breathing apparatus, antistatic clothing, and rubber oil-resistant gloves. Don't touch or walk over the spill. All equipment used during operation should be connected to the ground. Cut off the source of leakage as much as possible. Eliminate all ignition sources. The warning area shall be designated according to the influence area of dust diffusion, and the irrelevant personnel shall evacuate to the safety area from the crosswind and upwind.

Environmental protection measures: Absorb the leakage to avoid polluting the environment. Prevent leakage into sewers, surface water and groundwater.

Treatment of leaking chemicals:

A small number of leak: Collect the leaking liquid in an airtight container if possible. Absorb with sand, activated carbon or other inert materials and transfer to a safe place. No flushing down the drain.

A large number of leak: to build a causeway or trenching asylum.

7. HANDLING AND STORAGE

Handling: Operators shall be specially trained and strictly abide by the operating procedures. The operation and disposal should be carried out in places with local ventilation or comprehensive ventilation facilities. Avoid contact with eyes and skin and keep away from fire and heat source. Avoid contact with forbidden compounds such as oxidants. Handling should be carried lightly to prevent damage to packaging



and containers.

Storage: Pile up neatly in cool and well-ventilated warehouse and avoid direct sunshine. It should be stored separately from oxidizer and edible chemicals, and shouldn't confuse storage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentration low.

Personal Protective Equipment:

Inhalation: Wear a filter respirator when the air concentration exceeds the standard.

In case of emergency rescue or evacuation, respirators should be worn.

Eyes: Wear chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical appearance:	White fine granular powder, odorless and tasteless.
pH:	6.0-8.0
Evaporation rate:	Not data found.
Boiling Point (°C):	518.9 at 760 mmHg
Auto ignition temp (°C):	Not data found.
Freezing/Melting Point (°C):	>300
Flash point (°C):	281.7
Odor:	odourless.
Explosion limits% (V/V):	Not data found.
Inflammability:	Not data found.
Vapor Pressure (KPa):	Not data found.
Tap density:	0.30~0.70g/mL
Solubility:	Soluble in water and ethanol.
Bulk density:	0.16~0.30g/mL
Viscosity:	No data found
Decomposition temp(°C):	No data found
Molecular formula:	C ₈ H ₁₄ CaO ₁₀
Molecular weight:	310.27

10. STABILITY AND REACTIVITY

Chemical stability: The product is stable when stored and used at normal ambient temperature.

Hazardous reaction: No data found

Conditions to avoid: Electrostatic discharge, heat, and humidity.



Prohibited content: Strong oxides, strong acids, strong bases.

Hazardous decomposition products: No data found

11. TOXICOLOGICAL INFORMATION

Neurotoxicity:	No data found
Teragenicity:	No data found
Carcinogenicity:	No data found
Eqidemiology:	No data found
Reproductive effects:	No data found
Mutagenicity:	No data found
Others:	No data found

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish Acute toxicity Test:	No data found
Acute activity inhibition test of Zoael:	No data found
Alga growth inhibition test:	No data found
Toxicity to microorganisms:	No data found
Persistence and degradation:	No data found
Bioaccumulation or bioaccumulation:	No data found
Mobility in soil:	No data foun

13. DISPOSAL CONSIDERATIONS

Waste chemical: Recycle as much as possible. If it cannot be recycled, incineration is used for disposal. It is not allowed to waste and dispose of the product by discharging it into the sewer.

Contaminated packaging: Return containers to the manufacturer or dispose of them in accordance with national and local regulations.

Precautions for Abandonment: Relevant national and local laws and regulations should be referred to before disposal.

14. TRANSPORT INFORMATION

UN Number:	No data found
Shipping name:	No data found
Hazard class:	No data found
Packing Group:	No data found

15. REGULATORY INFORMATION



Hazard symbols:	Not reported
Risk phrases:	Not reported
Safety phrases:	Not reported

16. OTHER INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AUCO 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 AUCO has been advised of the possibility of such damages.