

SAFETY DATA SHEET

1. Chemical Product and Company Identification

Product Name : Calcium Lactate J
 Other Name : Bis-{(S)-2-Hydroxypropanoic Acid} Calcium salt
 Manufacturer : Musashino Chemical Laboratory, Ltd.
 Address : Tekko Bldg., 8-2, Marunouchi 1-Chome,
 Chiyoda-Ku, Tokyo 100-0005
 TEL : +81-3-6810-0242
 FAX : +81-3-6810-0148

2. Hazards Identification

Hazard Classification : Not classified
 Hazard Statement : Nothing

3. Composition/Information of Ingredients

It is single substance of Calcium Lactate.

Ingredient and Content :

Formula
$$\left[\begin{array}{c} \text{C H}_3 - \text{C H} - \text{C O O} \\ | \\ \text{O H} \end{array} \right]_2 \text{C a} \cdot n \text{H}_2\text{O}$$
 (n = 0~5)

MITI No. : 2-1376
 CAS No. : 28305-25-1, 5743-47-5 (Pentahydrate)
 EINECS : 248-953-3, 611-530-2 (Pentahydrate)
 TSCA : On Inventory (Anhydrous)

4. First Aid Measures

First Aid Measures under different exposure routes :

Inhalation :

Move the exposed person to fresh air at once. Get medical attention.

Skin Contact :

Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing.

Eye Contact :

Continue to rinse for at least 15 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention if any discomfort continues.

Ingestion :

Immediately rinse mouth and drink plenty of water. Get medical attention immediately.

Most important symptoms and effects :

No information available.

Protection of first aider :

No information available.

Notes for the physician :

No information available.

5. Fire Fighting Measures

Suitable extinguishing media :

This product is not flammable. Use fire extinguishing media appropriate for surrounding materials. Dry chemicals. Foam.

Special hazards arising from the product :

No information available.

Special fire-fighting methods :

Fire-fighting in the wind. Remove from fire and move to empty place. Cool containers with water spray. Provide adequate ventilation. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Protection for fire-fighters :

Fire-fighters should wear appropriate breathing apparatus and protective equipment.

6. Accidental Release Measures

Personal precautions :

Wear personal protective equipment (See section 8).

Environmental precautions :

It is biodegradable. And it is thought that fish toxicity is low.

Methods cleaning up :

Flush area with water.

7. Handling and Storage

Handling :

Avoid spilling, skin and eye contact. Wear appropriate clothing to prevent any possibility of skin contact.

Storage :

Store in tightly closed original container. Protect from light, including direct sunrays. Store below room temperature.

8. Exposure Controls/Personal Protection

Exposure limits :

Japan Society of Occupational health (JSOH)

The 3rd dust (Inhalational 2 mg/m³ Total 8 mg/m³)

American Conference of Industrial Hygienists (ACGIH)

Not applicable

Engineering control :

Provide local exhaust or process enclosure ventilation system.

Personal protective equipment :

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Hand protection : Wear protective gloves.

Eye protection : Wear approved safety goggles.

Skin and body protection : Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures :

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

9. Physical and Chemical Properties

Appearance : Powder.

Color : White

Odor : Odorless or slightly characteristic odor

pH(1→20) : 6.0~8.0

Flash Point : Not available

Flammability : Not flammable

Solubility : 9.7g/100ml Water (25°C) (Pentahydrate)

13.3g/100g Methanol (15°C) (Pentahydrate)

10. Stability and Reactivity

Stability : Stable under normal conditions of handling, storage use.

Reactivity : Not available.

Condition to avoid : Storage in high temperature and humidity place and outdoors

Hazardous decomposition products : Not available.

11. Toxicological Information

Acute Toxicity : No information to be careful..

Local Effect : May cause eye irritation by dust

May cause skin irritation due to long time contact.

12. Ecological Information

Persistence/degradability : Good.

13. Disposal Consideration

Waste Disposal methods : Incinerate in suitable combustion chamber. Dispose of waste and residues in accordance with local authority requirements.

14. Transport Information

UN Number : Not regulated
 UN Proper shipping name : Not regulated
 UN Classification : Not regulated
 Packing Group : Not regulated
 Mark/Label(s) : Not regulated
 Marine pollutant (Yes/No) : No
 Additional information :

The materials transportation by vehicles, the sender serves deliverers with instructions for safe handling. In transportation confirm leakless of the container, and load the materials not to upset, fall and damage. Secure preventing the load from falling.

15. Regulatory Information

Applicable regulations :

Food Sanitation Act : Food additives

16. Other Information

References :

- 1) "Encyclopedia Chimica (KAGAKU DAIJITEN)"
KYORITSU SHUPPAN (Japanese)
- 2) Chemical handbook • Basic
MARUZEN
- 3) Existing Chemical Substance Data handbook (1974)
KAIGAI GIJUTSUSIRYO KENKYUJO
- 4) Chemical Products
Chemical Daily Co. Ltd.
- 5) New Chemical Index.
Chemical Daily Co. Ltd.
- 6) Registry of Toxic Effects of Chemical Substances (RTECS)
- 7) Data Base : MDL INFORMATION SYSTEMS INC.
- 8) Chemfinder.com.

Disclaimer :

The information in this SDS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This SDS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this SDS should make independent judgment for the applicability of this SDS under special conditions. In these special cases, we do not assume responsibility for the damage.