

M A T E R I A L S A F E T Y D A T A S H E E T

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 Charge Department: Isohara Plant Quality Control Department
 Responsibility for MSDS: Quality Control Manager Masanobu Yamagata
 MSDS Preparation Date July 1, 2007

Trade Name	CALCIUM LACTATE
Name	CALCIUM LACTATE (CALCIUM 2-HYDROXYPROPANOATE)
Formula	$[\text{CH}_3\text{CH}(\text{OH})\text{COO}]_2\text{Ca}\cdot n\text{H}_2\text{O}$ (n=0~5, mainly pentahydrate(n=5))
MITI No.	(2)-1376 (Law Concerning Examination and Regulation of Manufacture, etc., of Chemical Substances)
CAS No.	814-80-2

Hazards Identification

Hazards Class Not applicable

First Aid

Skin Contact

Immediately flush skin with plenty of water or tepid water.

Eye Contact

Immediately flush eyes with plenty of water at least 15 minutes.

Immediately remove contact lenses if wore.

If irritation persists, call a physician.

Inhalation

Immediately remove to fresh air.

If breathing is difficult, give oxygen, call a physician.

Ingestion

If swallowed, give large quantities of water or solution of salt to drink.

Call a physician immediately.

Fire Fighting Measures

Fire Extinguish

Use water spray or extinguishing media.

Extinguishing Media

Dry Chemicals , Foam.

Leakage Wear chemical splash goggles, rubber boots and rubber gloves, recover by the way that the powder do not fly about.
In case of small quantities of leakage, clean up with large quantities of water.
Disposal must be in accordance with applicable local regulations.

Handling and Storage

Handling

Wear protective clothing to prevent skin contact .
After Handling, carry out washing hands.

Storage

Keep container tightly closed.
Store in areas shielded the light, and below room temperature.

Exposure Controls

Protection

Wear safety goggles, protective clothing, rubber or polyethylene gloves and face shield.
Set up safety shower, hands washer and eyes washer nearby handling the materials. Indicate the positions distinctly.

Physical And Chemical Properties

Appearance

White powder or granular, Odorless or a slight characteristic odor.

Solubility

water - 4.8g/100g(25°C), 187.7g/100g(80°C)
 (Both is the data of pentahydrate)
the rest - non soluble in alcohol.

Hazards Information

no data

Toxicological Information (Health Hazards Information) 1)

Acute toxicity

LD₅₀ 140 mg/kg bw. (mouse, iv)

Sub-chronic toxicity

After free taking drinking water added 0.3, 0.6, 1.25, 2.5, 5% calcium lactate for 13 weeks, there is no change that should be write.

Chronic toxicity

Free taking drinking water added 2.5, 5% calcium lactate for 104 weeks is not effective.

Carcinogenicity

Bacterial mutagenicity test : Negative

Ecological Information 2)

Biodegradability : good

Disposal Information

In case of a large quantity, it should be treated as industrial wastes.
In case of a small quantity, burn up.

Transport Information

In transportation confirm leakless of the container, and load
the materials not to upset, fall and damage.
Secure preventing the load from falling.

Regulatory Information

JAPAN Food Additive(JSFA on Food Sanitation Law)

Additional Information

Inquiry about informations

Address : Musashino Chemical Laboratory, Ltd.
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References

- 1) Commentary of The Japanese Standards for Food Additives 7th edition
(D-1027)
 - 2) TSUSANSHO KOHO 1993.12.28
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While MSDS presented here is correct and reliable to the best of our knowledge and belief, because we do not control any applications and conditions of use, they are given without guarantee, and we assume no responsibility with respect thereto.

The information on products is intended for common products use, so care for extraordinary handling.

End of MSDS

Musashino Chemical Laboratory, Ltd.