



Tomita Pharmaceutical Co., Ltd.

MANUFACTURER OF CHEMICALS & PHARMACEUTICALS

85-1 Maruyama, Akinokami, Seto-Cho, Naruto. City. Tokushima, P.f, Japan Phone:(088)688-0511 Fax:(088)688-0565

Certificate of Analysis

Jan. 17, 2006

Calcium Sulfite Granular SLM

Standard Specifications		Analysis Results	
Description	; Meets tests	; Meets tests	
Identification	; Meets tests	; Meets tests	
Chloride (Cl)	; 0.30 % max.	; 0.30 % max.	
Heavy metals (Pb)	; 10 μ g/g max.	; 10 μ g/g max.	
Magnesium (Mg)	; 0.10 % max.	; 0.10 % max.	
Arsenic (As ₂ O ₃)	; 4.0 μ g/g max.	; 4.0 μ g/g max.	
Assay	; 80.0 % min.	; 84.2 %	

Lot No. L60106

Analyzed by


Masanori Sumi

(Chief Analyst)

Checked by



Takashi Imura

(Quality Control Manager)

★★★ MATERIAL SAFETY DATA SHEET ★★★

Calcium Sulfit Granular

* SECTION 1 《 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 》

Product Name: Calcium Sulfit Granular SLM

Synonyms: Calcium Sulfit

Company Identification:

Tomita Pharmaceutical Co., Ltd.

Manufacturer of chemicals & pharmaceuticals

Akinokami, Seto-cho, Naruto-City, Tokushima 771-0360, Japan.

Telephone: +81 (88) 688-0511

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* SECTION 2 《 COMPOSITION/INFORMATION ON INGREDIENTS 》

CAS No.	Chemical Name	%
29501-28-8	Calcium Sulfit	90
9004-57-3	Ethylcellulose	10

* SECTION 3 《 HAZARDS IDENTIFICATION 》

Emergency Overview

Appearance: A white granular

CAUTION: MAY BE HARMFUL IF SWALLOWED.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: No information found.

Inhalation:

Dust may be slightly irritating. Sore throat or coughing may occur.

Chronic: No information found.

* SECTION 4 《 FIRST AID MEASURES 》

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

Skin:

Get medical aid if irritation develops or persists. Rinse area with large amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of water and vomit.
Get medical aid.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

* SECTION 5 《 FIRE FIGHTING MEASURES 》

General Information:

Substance is noncombustible.

Extinguishing Media:

Use extinguishing media most appropriate for the surrounding fire.

Auto ignition Temperature:

Not available.

Explosion Limits,

Lower: Not available.

Upper: Not available.

* SECTION 6 《 ACCIDENTAL RELEASE MEASURES 》

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

* SECTION 7 《 HANDLING and STORAGE 》

Handling: Wash thoroughly after handling. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage: Store in a cool, dry place, keep in a tightly closed container.

* SECTION 8 ‹‹ EXPOSURE CONTROLS, PERSONAL PROTECTION ››

Engineering Controls:

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Eyes: Wear chemical goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

* SECTION 9 ‹‹ PHYSICAL AND CHEMICAL PROPERTIES ››

Physical State	Solid
Appearance	White granular
Odor	None
Melting Point	No information found
Boiling Point	No information found
Decomposition Temperature	650°C
Solubility	Practically insoluble in water 0.0043g/100g (water contain sulfite ions :64° F)

* SECTION 10 ‹‹ STABILITY AND REACTIVITY ››

Chemical Stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid:

Incompatible materials, moisture, heat

Hazardous Decomposition Products:

Sulfur dioxide

Hazardous Polymerization:

Will not occur.

* SECTION 11 ‹‹ TOXICOLOGICAL INFORMATION ››

LD50/LC50:

No information found

Epidemiology:

No information found

Teratogenicity:

No information found

Reproductive Effects:

No information found

Neurotoxicity:

No information found

Mutagenicity:

No information found

Other studies:

No information found

* SECTION 12 《 ECOLOGICAL INFORMATION 》

Eco toxicity:

No information found

Environmental Fate:

No information found

Physical/Chemical:

No information found

* SECTION 13 《 DISPOSAL CONSIDERATION 》

Dispose of in a manner consistent with federal, state, and local regulations.

* SECTION 14 《 TRANSPORT INFORMATION 》

No information available.

* SECTION 15 《 OTHER INFORMATION 》

MSDS Creation Date: 6/10/2005

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user.

All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.



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Chemical Composition of "Calcium Sulfite Granular SL"

Chemical Composition of Calcium Sulfite Granular SL

Product: **Calcium Sulfite Granular SL**

Name of basic chemical composition and percentage:	
Name of basic chemical composition	Percentage
Calcium Sulfite	90 %
Ethylcellulose	10 %

Date: March 31, 2006

Eiji Mihara, Overseas Marketing Manager

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제품검사규격서

(명칭) 이류산 칼슘
(품위) 특수
(영문명) CALCIUM SULFATE
(화학식) $(CaSO_3 \quad FW:120.14)$

(품질)

함유량($CaSO_3$)	-----	72.5% 이상
염화물	-----	0.3% 이하
중금속(Pb)	-----	30ppm 이하
비소(As)	-----	5ppm 이하
철(Fe)	-----	50ppm 이하
불괴시험	-----	시험적합