

## Safety Data Sheet

### 1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Calcium Citrate

Product code(SDS NO): 26050jis\_J\_E1-1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: JUNSEI CHEMICAL CO., LTD.

Address: 1-6, Ohmano-Cho, Koshigaya, Saitama 343-0844, Japan

Division: Quality Assurance Department

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### 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

### 3. Composition/information on ingredients

Substance/Mixture:

Substance

Ingredient name: Calcium citrate tetrahydrate

Content(%): 97.0 <

Chemical formula:  $C_{12}H_{10}Ca_3O_{14} \cdot 4H_2O$

Chemicals No, Japan: 2-1320; 2-1323

CAS No.: 5785-44-4 [813-94-5(anh)]

MW: 570.49

ECNO: 212-391-7(anh)

### 4. First-aid measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER or doctor/physician if you feel unwell.

### 5. Fire-fighting measures

**Extinguishing media****Suitable extinguishing media**

Use appropriate extinguishing media suitable for surrounding facilities.

**Specific hazards arising from the substance or mixture**

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

**Advice for firefighters****Specific fire-fighting measures**

Evacuate non-essential personnel to safe area.

**Special protective equipment and precautions for fire-fighters**

Wear fire/flame resistant/retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

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**6. Accidental release measures****Personnel precautions, protective equipment and emergency procedures**

Ventilate area after material pick up is complete.

Wear proper protective equipment.

**Environmental precautions**

Avoid release to the rivers, lakes, ocean, groundwater.

**Methods and materials for containment and cleaning up**

Sweep up, place in a bag and hold for waste disposal.

**Preventive measures for secondary accident**

Collect spillage.

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**7. Handling and storage****Precautions for safe handling****Preventive measures**

(Protective measures against fire & explosion)

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

**Exhaust/ventilator**

Exhaust/ventilator should be available.

**Safety treatments**

Avoid contact with skin.

Avoid contact with eyes.

Avoid breathing dust, vapor, mist, or gas.

**Safety Measures/Incompatibility**

Wear protective gloves, protective clothing or face protection.

Use personal protective equipment as required.

When using do not eat, drink or smoke.

**Conditions for safe storage, including any incompatibilities****Recommendation for storage**

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

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**8. Exposure controls/personal protection****Control parameters**

No control value data available

**Adopted value**

No Adopted value data available

**Exposure controls**

## Appropriate engineering controls

- Do not use in areas without adequate ventilation.
- Eye wash station should be available.
- Washing facilities should be available.

## Individual protection measures

## Respiratory protection

- Wear respiratory protection.

## Hand protection

- Wear protective gloves.

## Eye protection

- Wear eye/face protection.

**9. Physical and Chemical Properties**

## Information on basic physical and chemical properties

## Physical properties

- Appearance: Powder
- Color: White
- Odor: None
- pH: 5.5~8.0 (1.0g, water20ml)

## Phase change temperature

- Initial Boiling Point/Boiling point data N.A.
- Melting point/Freezing point data N.A.
- Decomposition temperature data N.A.
- Flash point data N.A.
- Auto-ignition temperature data N.A.
- Explosive properties data N.A.
- Vapor pressure data N.A.
- Vapor density data N.A.
- Specific gravity/Density data N.A.

## Solubility

- Solubility in water: Slightly soluble
- n-Octanol /water partition coefficient data N.A.

**10. Stability and Reactivity**

## Reactivity

- Runaway polymerization will not occur.

## Chemical stability

- Stable under normal storage/handling conditions.

## Conditions to avoid

- Contact with incompatible materials.
- Open flames. Heat.

## Incompatible materials

- Strong bases

## Hazardous decomposition products

- Carbon oxides, Calcium oxides

**11. Toxicological Information**

## Information on toxicological effects

- No Acute toxicity data available
- No Irritant properties data available

No Allergenic and sensitizing effects data available  
No Mutagenic effects data available  
No Carcinogenic effects data available  
No Teratogenic effects data available  
No reproductive toxicity data available  
No STOT-single/repeated exposure data available  
No Aspiration hazard data available

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## 12. Ecological Information

Toxicity  
No Aquatic toxicity data available  
No Persistence and degradability data available  
No Bioaccumulative potential data available

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## 13. Disposal considerations

Waste treatment methods  
Dispose of contents/container in accordance with local/national regulation.

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## 14. Transport Information

UN No, UN CLASS  
Not applicable to UN NO.

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## 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture  
US major regulations  
TSCA  
Calcium citrate (anh)  
Other regulatory information  
We are not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.  
Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.  
Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

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## 16. Other information

Reference Book  
Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 18th edit., 2013 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)  
2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)  
2016 TLVs and BEIs. (ACGIH)  
<http://monographs.iarc.fr/ENG/Classification/index.php>  
Supplier's data/information  
Chemical Risk Information Platform (CHRIP)(NITE) <http://www.safe.nite.go.jp/japan/db.html>  
GHS Classification Guidance for Enterprises 2013 Revised Edition (August, 2013,METI)

### General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we



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assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2015).