**Safety Data Sheet** 

First Edition: February 1st, 2000 Last Revised: June 30th, 2020

# [1. Chemical product and company identification ]

Chemical substance name: Calcium stearate

(Fatty acids, C16-18, calcium salts)

**Product name:** 

Daiwax CS-8

Daiwax CS-55

Daiwax CS-40P

Daiwax CA

Daiwax CS-75

Daiwax CS-75

Daiwax CS-75

Company name: Dainichi Chemical Industry Co., Ltd.

**Address:** 7-3-4, Nakaishikiri-cho, Higashiosaka-shi, Osaka-fu,

579-8014, Japan

Associated department:

Technical department

+81-72-985-1851

Emergency contact number:
+81-72-985-1851

+81-72-985-1851

+81-72-987-0170

Recommended use:
Additives for resin

#### [2. Hazards identification ]

#### 1. GHS classification

a. Physical hazards

Flammable solids:

Pyrophoric solids:

Classification not possible

b. Health hazards

Acute toxicity (oral): Not applicable

Acute toxicity (dermal): Classification not possible

Acute toxicity (gases): Not classified

Acute toxicity (vapors): Classification not possible Acute toxicity (dusts and mists): Classification not possible Skin corrosion/irritation: Classification not possible Serious eye damage / eye irritation: Classification not possible **Respiratory sensitization:** Classification not possible Skin sensitization: Classification not possible Germ cell mutagenicity: Classification not possible Carcinogenicity: Classification not possible Reproductive toxicity: Classification not possible Classification not possible **STOT-single exposure:** STOT-repeated exposure: Classification not possible **Aspiration hazard:** Classification not possible

c. Environmental hazards

Acute aquatic hazard: Classification not possible Chronic aquatic hazard: Classification not possible

**Hazardous to the ozone layer:** Not applicable

#### 2. Label elements

Signal words:Not availableHazard pictogram:Not availableHazard statementNot availablePrecautionary statementNot available

2/8

Calcium stearate SE-1100102000

# **Safety Data Sheet**

First Edition: February 1st, 2000 Last Revised: June 30th, 2020

# [3. Composition/Information on ingredients]

Substance/Mixture:SubstanceChemical substance name:Calcium stearate

(Fatty acids, C16-18, calcium salts) Octadecanoic acid, calcium salt

Synonym: Octadecanoic acid, calcium sal CAS number: 1592-23-0 (85251-71-4)

ENCS number: (2)-611

**EINECS number:** 216-472-8 (286-484-6)

KECL number: KE-26347

### [4. First-aid measures]

IN EACH CASES OF FOLLOWING EMERGENCIES, VICTIMS SHOULD BE TREATED BY PARTICULAR FIRST-AID MEASURES AS FOLLOW

**In eyes:** Flush eyes with plenty of water for at least 15 minutes. Then

get immediate medical advice.

On skin: Wash skin with soap and water for at least 15 minutes while

removing contaminated clothing and shoes. Get medical advice, if needed. Thoroughly clean and dry contaminated

clothing and shoes before reuse.

**Inhalation:** If adverse effects occur, remove to uncontaminated area.

Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified

personnel. Get immediate medical advice.

**Ingestion:** If large amount is swallowed, get medical advice.

## [5. Fire-fighting measures]

Suitable Extinguishing media: Water spray, foam-extinguisher, powder-extinguisher and

dry chemical

**Inappropriate extinguishing media:** Straight stream water

Flammable properties: Hazardous fume containing COX and NOX might be formed

during combustion.

**Special protective actions for fire-fighters:** Fire-fighters should wear an appropriate respiratory

apparatus and protective clothes for chemical.

# **Safety Data Sheet**

First Edition: February 1st, 2000 Last Revised: June 30th, 2020

### [6. Accidental release measures]

**Personal precautions:** Use proper protective equipment as indicated in Section 8.

Avoid direct contact with the spilled or leaked material. Avoid inhaling this product in the air (Powder dust). Evacuate the area if large amount of product is leaked.

Ventileate the area if necessary.

Methods and materials for containment and cleaning

up:

Rake spills with a broom and collect it in appropriate

container.

Store the container in a cool and dry place until it disposes.

Ventilate the area where this product was released.

Environmental precautions: Avoid flowing out to the rivers, household drains and other

environment.

## [7. Handling and storage]

**Handling:** Refer to Section 8.

Wash hands carefully after handling this product. Prohibit open flames while handling this product. Use dust explosion-proof electrical equipment and light

fixtures.

Avoid diffusion of this product to the air.

Do not eat, drink or smoke while handling this product.

**Storage:** Store this product in well-ventilated, dry and cool place.

Please make sure that the storage is not close to open flames,

sparks and heat.

Please make sure that the container of this product is tightly

closed when store this product. Please use antistatic containers.

4/8

Calcium stearate SE-1100102000

# **Safety Data Sheet**

First Edition: February 1st, 2000 Last Revised: June 30th, 2020

## [8. Exposure controls/Personal protection ]

**Component Exposure Limit** 

**ACGIH:** 10mg/m<sup>3</sup> TLV-TWA (Stearates)

**Engineering controls:** Eye washer and safety shower should be placed in storages

where this product is stored and in buildings where this

product is handled.

**Ventilation:** Provide local exhaust ventilation system. Ventilation

equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance

with applicable exposure limits.

Personal protective equipment

Hands: Wear appropriate protective gloves.

Eyes: Wear appropriate safety glasses.

Skin and Body: Wear appropriate protective clothes.

**Respiratory:** Wear air-purifying respirator with a tight-fitting facepiece

and a high-efficiency particular filter.

# [9. Physical and chemical properties ]

Appearance: White solid (powder, granule, flake, etc.)

Odor:No data availableOdor threshold:No data availablepH:No data availableMelting point and freezing point:135 - 155℃Initial boiling point and boiling range:No data availableFlash point (Open cup):No data availableLower explosive limits:No data available

Upper explosive limits:No data availableVapor pressure:No data availableVapor density (Air =1):No data availableSpecific gravity or density:1.03 g/cm³

Solubility:Poorly soluble in waterPartition coefficient: n-octanol/water:No data availableAuto-ignition temperature:460°C (860°F)Decomposition temperature:No data availableViscosity:No data available

**Safety Data Sheet** 

First Edition: February 1st, 2000 Last Revised: June 30th, 2020

# [10. Stability and reactivity]

**Reactivity:** Not in particular.

**Chemical stability:** Stable in general condition.

Conditions to avoid: Slightly flammable, avoid high temperature. High

concentration dispersion in air might result in powder

explosion.

**Incompatible materials:** Not in particular.

**Hazardous decomposition product:** This product will form hazardous fume of carbon oxide and

nitrogen oxide on heating or burning.

Possibility of hazardous reactions: No data available

## [11. Toxicological information]

Acute toxicity (Oral): Based on IUCLID (2000), Oral Rat LD50 is larger than

10000mg/kg, therefore classified as "Not classified".

**Acute toxicity (Dermal):** No data available Not applicable **Acute toxicity (Gases):** Acute toxicity (Vapors): No data available Acute toxicity (Dusts and mists): No data available Skin corrosion/irritation: No data available Serious eye damage / Eye irritation: No data available Respiratory sensitization: No data available No data available Skin sensitization: Germ cell mutagenicity: No data available Carcinogenicity: No data available Reproductive toxicity: No data available STOT-single exposure: No data available STOT-repeated exposure: No data available **Aspiration hazard:** No data available

Component analysis - LD50/LC50: Oral LD50 Rat > 10000mg/kg

Inhalation (Dust)

**Acute exposure:** Inhalation of dust may cause irritation and congestion of the

respiratory tract.

**Chronic exposure:** Excessive inhalation may cause a progressive chemical pneun

**Safety Data Sheet** 

First Edition: February 1st, 2000 Last Revised: June 30th, 2020

# [12. Ecological information]

**Ecotoxicity** 

Aquatic ecotoxicity:No data availableTerrestrial ecotoxicity:No data availablePersistence and degradability:No data availableBioaccumulative potential:No data availableMobility in soil:No data availableHazardous to the ozone layer:No data available

# [13. Disposal considerations]

Do NOT dump this product in the environment or in the household waste. Before disposal or incineration, contents of this product should be neutralized or stabilized if it's possible.

Obey local/regional/national/international regulations about the disposal or the incineration of this product (both contents and containers).

# [14. Transport information]

**UN number:** Not Applicable on UN classification

**HS code:** 2915.70

US DOT:

No classification assigned TDG:

No classification assigned No classification assigned ADR:

No classification assigned No classification assigned IATA:

No classification assigned ICAO:

No classification assigned No classification assigned IMDG:

Marine pollutant: Not applicable

**Particular safety measures for transportation:** Avoid damage to the container while loading this product.

Do not put heavy objects on top of this product. Load carefully to prevent the collapse of cargo. Avoid direct sunlight to this product during transport.

# **Safety Data Sheet**

First Edition: February 1st, 2000 Last Revised: June 30th, 2020

# [15. Regulatory information]

### **Inventory information**

Inventory Name	Calcium stearate		Fatty acids, C16-18, calcium salts	
	Status	Registry Number	Status	Registry Number
AICS (Australia):	Present	_	Unlisted	_
DSL (Canada):	Present	_	Unlisted	_
IECSC (China):	Present	30026	Present	41726
EINECS (EU):	Present	216-472-8	Present	286-484-6
ENCS (Japan):	Present	(9)-1677, (2)-611	Present	(2)-611
KECL (Korea):	Present	KE-26347	Unlisted	_
INSQ (Mexico):	Present	_	Unlisted	_
NZIoC (New Zealand):	Present	_	Present	_
PICCS (Philippines):	Present	_	Unlisted	_
HPV Chemicals (Turkey):	Present	216-472-8	Present	286-484-6
Inventory (Turkey):	Present	EC No. 216-472-8	Present	EC No. 286-484-6
TSCA (U.S.A.):	Present	_	Unlisted	_

#### [16. Other Information]

#### References

- 1 ChemADVISOR, Inc. (2014). Calcium stearate [Data file]. Retrieved from LOLI database.
- 2 ChemADVISOR, Inc. (2014). Fatty acids, C16-18, calcium salts [Data file]. Retrieved from LOLI database.
- 3 IUCLID. (2000). Dataset for calcium stearate [Data file].
- 4 IUCLID. (2000). Dataset for fatty acids, C16-18, calcium salts [Data file].
- 5 National Institute of Technology and Evaluation (NITE). (2006). Calcium stearate [Data file].
- National Institute of Technology and Evaluation (NITE). (2006). Fatty acids, C16-18, calcium salts [Data file].
- 7 United Nations. (2013). Globally Harmonized System of Classification and Labelling of Chemicals (GHS) (5th ed.). (The Japanese GHS Inter-ministerial Committee, Trans.). Tokyo: The Chemical Daily Co., Ltd..

**Safety Data Sheet** 

First Edition: February 1st, 2000 Last Revised: June 30th, 2020

#### Key/ Legend

ACGIH - American Conference of Governmental Industrial Hygienists

AICS - Australia Inventory of Chemical Substances

ADR - European Road Transport CAS - Chemical Abstracts Service °C - degree Celsius DSL - Domestic Substances List

EINECS - European Inventory of Existing Commercial Chemical Substances (European Union)

ENCS - Existing and New Chemical Substances (Japan)

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

HPV - High Production Volume HS code - Harmonized System code

IATA - International Air Transport Association

ICAO - International Civil Aviation Organization

IECSC - Inventory of Existing Chemical Substances (China)

IMDG - International Maritime Dangerous Goods

INSQ - National Inventory of Chemical Substances (Mexico)

IUCLID - International Uniform Chemical Information Database

KECL - Korea Existing Chemicals Inventory NITE - National Institute of Technology and Evaluation

LD50 - Lethal Dose, 50% or Median Lethal Dose

LOLI - List Of Lists<sup>TM</sup>-ChemADVISOR's Regulatory Database

NZIoC - New Zealand Inventory of Chemicals

PICCS - Philippines Inventory of Chemicals and Chemical Substances

RTECS - Registry of Toxic Effects of Chemical Substances®

RID - European Rail Transport STOT - Specific Target Organ Toxicity

TDG - Transportation of Dangerous Goods
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act (U.S.A.)
TWA - Time Weighted Average

UN - United Nations US DOT - United States Department of Transportation

#### Manufacture disclaimer

All information given in this SDS is based on the data which is considered to be accurate, but the information do not guarantee enough safety. All chemical material may have an unknown hazard to human and conditions of methods of handling, storage, use and disposal of the product are beyond suppliers' control; therefore all risks and consequences of use the product are on users' responsibilities and users need to set appropriate safety measures for special use.

In addition, all classification in this SDS was written in accordance with the GHS classification of the fifth revised edition. However, GHS mentioned that countries are free to determine which of the building blocks will be applied in different parts of label elements and building blocks. Therefore, many countries set own requirements of label elements and building blocks. In the cases of export from Japan or use in other countries, SDSs and labels are needed, which are in accordance with the local laws and regulations of exporting countries or user countries. Please contact supplier beforehand for checking SDSs and labels are suitable for the local laws and regulations.