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[1. Chemical product and company identification]

Chemical substance name:Calcium stearate (Fatty acids, C16-18, calcium salts)Product name:Calcium Stearate-H50Calcium Stearate-H

Calcium Stearate-H50
Calcium Stearate-AS

Company name: Dainichi Chemical Industry Co., Ltd.

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

579-8014, Japan

Associated department:
Telephone number:

Emergency contact number:

FAX number:

Recommended use:

Technical department
+81-72-985-1851
+81-72-985-1851
-81-72-987-0170
Additives for resin

[2. Hazards identification]

1. GHS classification

a. Physical hazards

Flammable solids:

Pyrophoric solids:

Classification not possible
Classification not possible
Classification not possible
Classification not possible

Substances and mixture which, in

contact with water, emit flammable Classification not possible

gases:

Corrosive to metals: Classification not possible

b. Health hazards

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Classification not possible

Acute toxicity (gases): Not applicable

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 STOT-single exposure: Classification not possible STOT-repeated exposure: Classification not possible **Aspiration hazard:** Classification not possible

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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

[3. Composition/Information on ingredients]

Substance/Mixture:SubstanceChemical substance name:Calcium stearate

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

CAS number: 1592-23-0 (85251-71-4)

ENCS number: (2)-615

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

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Flammable properties: Slight fire hazard.

Dust/air mixtures may ignite or explode.

Special protective actions for fire-fighters:Take away a product container from a fire if possible.

Keep containers cool with a plenty of water after fire

extinction.

Fire-fighters should wear an appropriate respiratory apparatus and protective clothes for chemical.

[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).

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: Avoid contact with eyes, skin and clothes.

Wash hands carefully after handling this product. Prohibit open flames while handling this product.

Avoid deposition of this product.

Use dust explosion-proof electrical equipment and light

fixtures.

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.

[8. Exposure controls/Personal protection]

Component Exposure Limit

NIOSH, EU, OSHA (US) and other organizations have not developed exposure limits for any of this product's components.

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.

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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: $135 - 155^{\circ}$ C

Initial boiling point and boiling range:No data availableFlash point (Open cup): $>200^{\circ}$ C ($>392^{\circ}$ F)Evaporation rate (Butyl acetate =1):No data availableFlammability (solids, gas):No data available

Lower explosive limits: 30 g/m^3

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

Solubility: $2.2 \text{ mg/L in water at } 20^{\circ}\text{C}$

Partition coefficient: n-octanol/water:No data availableAuto-ignition temperature: 460° C (860° T)Decomposition temperature:No data availableViscosity:No data available

[10. Stability and reactivity]

Reactivity: Not in particular.

Chemical stability: Stable in general condition.

Conditions to avoid: Avoid contact with incompatible materials.

Avoid heat, flames, sparks and other sources of ignition. If dry, it can be charged electrostatically by swirling,

pneumatic transport, pouring, etc.

Incompatible materials: Oxidizing materials

Hazardous decomposition product: Oxides of carbon and nitrogen

Possibility of hazardous reactions:

Heating or combustion reaction: Hazardous

This product will form hazardous fume of nitrogen and

carbon monoxide on heating or burning.

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[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 Acute toxicity (Gases): Not applicable Acute toxicity (Vapors): Not applicable Acute toxicity (Dusts and mists): No data available No data available Skin corrosion/irritation: Serious eye damage / Eye irritation: No data available **Respiratory sensitization:** No data available Skin sensitization: No data available Germ cell mutagenicity: No data available Carcinogenicity: No data available No data available Reproductive toxicity: 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: No data available

Skin contact

Acute exposure:

Chronic exposure:

No data available

No data available

Eye contact

Acute exposure: Dust particles may cause irritation and redness.

Chronic exposure: No data available

Ingestion

Acute exposure: Large amounts may cause gastrointestinal disturbances.

Stearates are generally considered low in oral toxicity.

Chronic exposure: No data available

[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).

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[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.

[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	_

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[16. Other Information]

Manufacturer information

Manufacturer name: Formosa Organic Chemical Industry Co., Ltd.

Address: 575 Soi 11 Pattana 1 Road, Bangpoo Industrial Estate,

Praeksa, Amper Muang, Samutprakarn, 10280, Thailand

 Telephone number:
 +66 2709 3016-9

 Emergency contact number:
 +66 2709 3016-9

 FAX number:
 +66 2324 0353

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..

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 ListsTM-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®

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RID - European Rail Transport

TDG - Transportation of Dangerous Goods

TSCA - Toxic Substances Control Act (U.S.A.)

UN - United Nations

STOT - Specific Target Organ Toxicity

TLV - Threshold Limit Value

TWA - Time Weighted Average

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.