Last Revised: June 30th, 2020

Daiwax L SE-1800102000

# **Safety Data Sheet**

## [1. Chemical product and company identification]

**Chemical substance name:** Lithium stearate

(Fatty acids, C16-18, lithium salts)

**Product name:** Daiwax

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
FAX number:
+81-72-987-0170
Recommended use:
Additives for resin

### [2. Hazards identification ]

### 1. GHS classification

a. Physical hazards

#### b. Health hazards

Acute toxicity (oral):Classification not possibleAcute toxicity (dermal):Classification not possibleAcute toxicity (gases):Classification not possible

Acute toxicity (vapors): Not classified

Acute toxicity (dusts and mists): Classification not possible Skin corrosion/irritation: Classification not possible

Serious eye damage / eye irritation: Category 2B

**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

c. Environmental hazards

Acute aquatic hazard:

Chronic aquatic hazard:

Classification not possible

Classification not possible

Classification not possible

Classification not possible

### 2. Label elements

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

### [3. Composition/Information on ingredients]

Substance/Mixture:SubstanceChemical substance name:Lithium stearate

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

Synonym: Octadecanoic acid, lithiu CAS number: 4485-12-5 (68783-37-9)

ENCS number: (2)-611

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**EINECS number:** 224-772-5 (272-195-2) **KECl number:** KE-26389 (KE-15046)

[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: 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).

Pake spills with a broom and collect it in appropriate

Methods and materials for containment and cleaning

up:

Rake spills with a broom and collect it in appropriate container.

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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.

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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** 

ACGIH, 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.

**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.

### [9. Physical and chemical properties ]

White powder Appearance: Odor: No data available No data available **Odor threshold:** No data available pH: 210 - 230°C Melting point and freezing point: Initial boiling point and boiling range: Not applicable Flash point (Open cup): >232°C (>450°F) **Evaporation rate (Butyl acetate =1):** No data available No data available Flammability (solids, gas): No data available **Explosive limits:** Vapor pressure: No data available No data available Vapor density (Air =1): Specific gravity or density: No data available Insoluble in water Solubility: No data available Partition coefficient: n-octanol/water: No data available **Auto-ignition temperature: Decomposition temperature:** No data available

### [10. Stability and reactivity]

Viscosity:

**Reactivity:** Not in particular.

Chemical stability: Stable in room temperature and pressure.

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.

No data available

**Incompatible materials:** Oxidizing materials

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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.

[11. Toxicological information]

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

Component analysis - LD50/LC50: Oral LD50 Rat > 15000mg/kg

Inhalation (Dust)

Acute exposure:

Inhalation of the dust may cause irritation and congestion of the respiratory tract. There is insufficient data as to whethere ornot systemic lithium toxity may occur by this route.

Chronic exposure: No data available

Skin contact

Acute exposure: No data available
Chronic exposure: No data available

Eye contact

Acute exposure:

Exposure to dust may cause irritation.

Chronic exposure: No data available

**Ingestion** 

Acute exposure:

Initial symptoms of a massive dose of lithium compounds may include nausea, vomiting, and profuse diarrhea. Other possible symptoms, which may be delayed, are hypotension, drowsiness, muscular weakbess, ataxia, athetosis, muscle twitching, mild tremor, slurred speech, blurred vision, thirst, allergic erythema, malaise, anorexia, confusion, delirium, convulsions, coma, cardiac arrhythmias, and EKG changes.

Renal function impairment with glucosuria and albuminuria may occur. In severe poisoning, if death does not occur from respiratory and cardiac complications, there may be longterm or permanent effects usually of a cerebellar nature but sometimes with peripheral neuropathy or parkinsonism.

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### Chronic exposure:

Repeated ingestion of lithium compounds may initially cause fine hand tremors, mild thirst, nausea, and general discomfort. Early signs of intoxication may be diarrhea, vomiting, drowsiness, weakness and incoodination. At higher levels, the symptoms of acute exposure may occur as well as giddiness, tinnitus, lowered renal concentrating ability with polyuria, headache, muscular and reflex hyperirritability, blackout spells, epileptiform seizures, vertigo, incontinence of urine or feces, memory impairment, psychomotor retardation, restlessness, stupor, and peripheral circulatory collapse.

Other reported symptoms include nephrosis, oliguria, dry mouth, alopecia, cutaneous hyperalgesia, folliculitis, skin eruptions, psoriasis, hypothyroidism or, less commonly, hyperthyrodism, leukocytosis, and changes in the EEG and EKG. When taken during pregnancy, lithium compounds may affect the newborn with cyanosis, hypotonia, central nervous system depression, and neonatal goiter, all of which are reversible. If taken early in the pregnancy, cardiovascular anomalies may result.

# [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

US DOT:

No classification assigned TDG:

No classification assigned No classification assigned RID:

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.

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### [15. Regulatory information]

**Inventory information** 

| Inventory Name          | Lithium stearate |                 | Fatty acids, C16-18, lithium salts |                 |
|-------------------------|------------------|-----------------|------------------------------------|-----------------|
|                         | Status           | Registry Number | Status                             | Registry Number |
| AICS (Australia):       | Present          | _               | Unlisted                           | _               |
| DSL (Canada):           | Present          | _               | Present                            | _               |
| IECSC (China):          | Present          | 30032           | Unlisted                           | _               |
| EINECS (EU):            | Present          | 224-772-5       | Present                            | 272-195-2       |
| ENCS (Japan):           | Present          | (2)-611         | Unlisted                           | _               |
| KECL (Korea):           | Present          | KE-26389        | Present                            | KE-15046        |
| INSQ (Mexico):          | Unlisted         | _               | Unlisted                           | _               |
| NZIoC (New Zealand):    | Present          | HSR003188       | Unlisted                           | _               |
| PICCS (Philippines):    | Present          | _               | Unlisted                           | _               |
| HPV Chemicals (Turkey): | Unlisted         | _               | Unlisted                           | _               |
| Inventory (Turkey):     | Unlisted         | _               | Unlisted                           | _               |
| TSCA (U.S.A.):          | Present          | _               | Present                            | _               |

### [16. Other Information]

#### References

- 1 ChemADVISOR, Inc. (2014). Lithium stearate [Data file]. Retrieved from LOLI database.
- 2 ChemADVISOR, Inc. (2014). Fatty acids, C16-18, lithium salts [Data file]. Retrieved from LOLI database.
- 3 National Institute of Technology and Evaluation (NITE). (2006). Lithium stearate [Data file].
- 4 National Institute of Technology and Evaluation (NITE). (2006). Fatty acids, C16-18, lithium salts [Data file].
- 5 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

°C - degree Celsius

ACGIH - American Conference of Governmental Industrial Hygienists

AICS - Australia Inventory of Chemical Substances

ADR - European Road Transport

CAS - Chemical Abstracts Service 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

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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.