

【1. Identification】

Chemical substance name:	Magnesium stearate(Fatty acids, C16-18, magnesium salts)
Product name:	Daiwax M Daiwax MF Daiwax Mso Daiwax Mso2 Daiwax SM-10 Daiwax SMO Daiwax SMO-1 Daiwax SMO-11
Company name:	Dainichi Chemical Industry Co., Ltd.
Address:	7-3-4, Nakaishikiri-cho, Higashiosaka-shi, Osaka-fu, 579-8014, Japan
Associated department:	Technical department
Telephone number:	+81-72-985-1851
Emergency contact number:	+81-72-985-1851
FAX number:	+81-72-987-0170
Recommended use:	Additives for resin
restriction on use:	Expert judgment is required when using for purposes other than those recommended.

【2. Hazards identification】

1. GHS classification

a. Physical hazards

Explosive:	Not classified
Flammable gases:	Not classified
Aerosols:	Not classified
Oxidizing gases:	Not classified
Gases under pressure:	Not classified
Flammable liquid:	Not classified
Flammable solids:	Classification not possible
Self-reactive substances and mixture:	Not classified
Pyrophoric liquids:	Not classified
Pyrophoric solids:	Not classified
Self-heating substances and mixtures:	Classification not possible
Substances and mixture which, in contact with water, emit flammable gases:	Not classified
Oxidizing liquids:	Not classified
Oxidizing solids:	Not classified
Organic peroxides:	Not classified
Corrosive to metals:	Classification not possible
Desensitized explosives:	Not classified

b. Health hazards

Acute toxicity (oral):	Classification not possible
Acute toxicity (dermal):	Classification not possible
Acute toxicity (gases):	Not classified
Acute toxicity (vapors):	Not classified
Acute toxicity (dusts and mists):	Classification not possible
Skin corrosion/irritation:	Category 3
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

Safety Data Sheet

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:	Classification not possible
d. Others	
Risk of dust explosion	

2. GHS Label elements, including precautionary statements

Signal words:	Warning
Hazard pictogram:	Not available
Hazard statement	
H316:	Causes mild skin irritation.
H320:	Causes eye irritation.
Precautionary statement	
Prevention	
P264:	Wash eyes thoroughly after handling.
Response	
P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313:	If eye irritation persists: Get medical advice/attention.
P332+P313:	If skin irritation occurs: Get medical advice/attention.
Other Hazard statements:	May form explosible dust-air mixture if dispersed

【3. Composition/Information on ingredients】

Substance/Mixture:	Substance
Chemical substance name:	Magnesium stearate (Fatty acids, C16-18, magnesium salts)
CAS number:	557-04-0 (91031-63-9)
ENCS number:	2-611
EINECS number:	209-150-3 (292-967-2)

【4. First-aid measures】

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.
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.
In eyes:	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical advice.
Ingestion:	Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical advice.

【5. Fire-fighting measures 】

Suitable Extinguishing media:

Water spray, foam-extinguisher, powder-extinguisher and dry chemical

Inappropriate extinguishing media:

Straight stream water

Specific hazards arising from the substance or mixture:

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.

【6. Accidental release measures 】

Personal precautions, protective equipment and emergency procedures:

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. Ventilate the area if necessary.

Environmental precautions:

Avoid flowing out to the rivers, household drains and other environment.

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.

【7. Handling and storage 】

Precautions for safe 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.

Conditions for safe storage, including any incompatibilities:

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

【8. Exposure controls/Personal protection 】

Control parameters

ACGIH:

Appropriate engineering controls

TWA 10 mg/m³(I), 3 mg/m³(R),STEL -

Eye washer and safety shower should be placed in storages where this product is stored and in buildings where this product is handled.

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 】

Physical state:

Solid (powder)

Color:

White

Odor:

No data available

Melting point/Freezing point:

120 - 150°C

Boiling point or initial boiling point and boiling range:

No data available

Flammability:

No data available

Lower and upper explosion limit/flammability limit:

Upper limit:No date

Lower limit:40g/m³

Flash point:

>200°C

Auto-ignition temperature:

No data available

Decomposition temperature:

No data available

pH:

No data available

Kinematic viscosity:

No data available

Solubility:

Poorly soluble in water

Partition coefficient/n-octanol/water(log value):

No data available

Vapor pressure:

No data available

Density and/or relative density:

No data available

Relative vapor density:

No data available

Particle characteristics:

No data available

【10. Stability and reactivity 】

Reactivity:

Not in particular.

Chemical stability:

Stable in general condition.

Possibility of hazardous reactions:

No data available

Conditions to avoid:

Slightly flammable, avoid high temperature. High concentration dispersion in air might result in powder

Incompatible materials:

Bases, Oxidizing materials

Hazardous decomposition product:

This product will form fume containing COX and NOX on heating or burning.

【11. Toxicological information】

Acute toxicity (Oral):	No data available
Acute toxicity (Dermal):	No data available
Acute toxicity (Gases):	Not applicable
Acute toxicity (Vapors):	Not applicable
Acute toxicity (Dusts and mists):	No data available
Skin corrosion/irritation:	Based on NITE (2006), there is a possibility of skin irritation to human, therefore classified as "Category 3".
Serious eye damage / Eye irritation:	Based on NITE (2006), there is a possibility of eye irritation to human, therefore classified as "Category 2B".
Respiratory sensitization:	No data available
Skin sensitization:	No data available
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

【12. Ecological information】

Toxicity	
Aquatic ecotoxicity:	No data available
Terrestrial ecotoxicity:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effects:	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 relevant as Not classified
UN Proper Shipping Name:	Not relevant as Not classified
Transport hazard class:	Not relevant as Not classified
Packing group:	Not relevant as Not classified
Environmental hazards:	Not relevant as Not classified
Special precautions for user:	Follow the transportation methods stipulated.
Transport in bulk according to IMO instruments:	Not applicable for product as supplied.

【15. Regulatory information】

Inventory information

Inventory Name	Magnesium stearate	
	Status	Registry Number
AICS (Australia):	Present	—
DSL (Canada):	Present	—
IECSC (China):	Present	30034
EINECS (EU):	Present	209-150-3
ENCS (Japan):	Present	2-611
KECL (Korea):	Present	KE-26390
INSQ (Mexico):	Present	—
NZIoC (New Zealand):	Present	—
PICCS (Philippines):	Present	—
TSCA (U.S.A.):	Present	—

【16. Other Information】

References

- 1 National Institute of Technology and Evaluation (NITE)
- 2 *GHS 9th edition*

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 9th 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.