

# MAGNESIUM STEARATE

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 8/03/2018 Revision date: 8/03/2018 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form	: Substance
Substance name	: MAGNESIUM STEARATE
EC-No.	: 209-150-3
CAS-No.	: 557-04-0
REACH registration No	: not available
Formula	: C <sub>18</sub> H <sub>36</sub> O <sub>2</sub> .1/2Mg
Synonyms	: Octadecanoic acid, magnesium salt / Stearate, magnesium / Stearic acid, magnesium salt / Octadecanoic acid, magnesium salt (2:1) / Magnesium distearate / MAGNESIUM STEARATE / Salts of stearic acids with magnesium bases / Magnesium octadecanoate / Bis(octadecanoic acid)magnesium salt / Salt of stearic acid with magnesium base / Dioctadecanoate magnesium
Other means of identification	: Octadecanoic acid, magnesium salt (CAS No. 557-04-0; 91031-63-9/ EC No. 209-150-3; 292-967-2)

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Lubricant

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

FACI S.p.A.  
Via Privata Devoto 36  
16042 CARASCO (GE)  
T +39 0185 36141 - F +39 0185 350249  
[technicalservice@faci.it](mailto:technicalservice@faci.it)

#### 1.4. Emergency telephone number

Emergency number : +39 0185 36141  
(business hours)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### Adverse physicochemical, human health and environmental effects

Dust may form explosive mixture in air.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards not contributing to the classification

other hazards which do not result in classification : May form combustible dust concentrations in air.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name	Product identifier	%
MAGNESIUM STEARATE	(CAS-No.) 557-04-0 (EC-No.) 209-150-3 (REACH-no) not available	≈ 98

#### 3.2. Mixtures

Not applicable

# MAGNESIUM STEARATE

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- |                                       |   |
|---------------------------------------|---|
| First-aid measures after inhalation   | : Remove person to uncontaminated area. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical advice/attention.  |
| First-aid measures after skin contact | : Gently wash with plenty of soap and water. Remove contaminated clothing. Drench affected area with water for at least 15 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.  |
| First-aid measures after ingestion    | : Get immediate medical advice/attention. Do not induce vomiting without medical advice.  |

#### 4.2. Most important symptoms and effects, both acute and delayed

- |                                    |                                   |
|------------------------------------|-----------------------------------|
| Symptoms/effects after eye contact | : Dusts are mechanical irritants. |
|------------------------------------|-----------------------------------|

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- |                                |   |
|--------------------------------|---|
| Suitable extinguishing media   | : Water spray, dry chemical, foam, carbon dioxide. Do not use a solid water stream as it may scatter and spread fire. Use extinguishing media appropriate for surrounding fire. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.  |

#### 5.2. Special hazards arising from the substance or mixture

- |  |   |
|--|---|
| Fire hazard                                      | : Potential dust explosion hazard from airborne release. High concentrations of dust or fine particulate in enclosed spaces may represent a fire/explosion risk.                                  |
| Explosion hazard                                 | : Potential dust explosion hazard from airborne release. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.  |

#### 5.3. Advice for firefighters

- |                                       |  |
|---------------------------------------|--|
| Precautionary measures fire           | : Avoid generation of dust. Keep container tightly closed and away from heat, sparks and flame.                            |
| Firefighting instructions             | : Move undamaged containers from immediate hazard area if it can be done safely. Stay upwind/keep distance from source.    |
| Protective equipment for firefighters | : Use self-contained breathing apparatus and chemically protective clothing. Wear fire/flame resistant/retardant clothing. |

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

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|----------------------|--|
| Protective equipment | : Wear suitable protective clothing. Wear recommended personal protective equipment. |
| Emergency procedures | : Avoid breathing dust. Immediately contact emergency personnel. Evacuate area.      |

##### 6.1.2. For emergency responders

- |                      |   |
|----------------------|---|
| Protective equipment | : Minimize generation of dust. Wear suitable protective clothing. Wear recommended personal protective equipment.   |
| Emergency procedures | : Evacuate and limit access. Take precautionary measures against static discharge. Avoid breathing dust. Material spilled on hard surface can present a serious slipping/falling hazard. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. |

#### 6.2. Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

- |                         |  |
|-------------------------|--|
| For containment         | : Contain the spillage using bonding. For larger spills, dike area and pump into waste containers. Mechanically ventilate the spillage area. Use clean-up methods that avoid dust generation (vacuum wet). |
| Methods for cleaning up | : Avoid creating or spreading dust. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.  |

#### 6.4. Reference to other sections

For disposal of residues refer to section 13 : Disposal considerations.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- |                                   |  |
|-----------------------------------|--|
| Additional hazards when processed | : Generation of airborne dust. Dust may form flammable and explosive mixture with air. |
|-----------------------------------|--|

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## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Precautions for safe handling	: Do not breathe dust. Use approved industrial vacuum cleaner for removal. Avoid raising powdered materials into airborne dust. Provide local exhaust or general room ventilation to minimize exposure to dust. Use grounded electrical/mechanical equipment. Use explosion-proof equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing prior to re-use. Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a dry, cool area. Keep container tightly closed.
Maximum storage period	: 24 months
Heat and ignition sources	: Keep away from open flames, hot surfaces and sources of ignition.
Special rules on packaging	: Keep only in original container.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

MAGNESIUM STEARATE (557-04-0)		
Belgium	Limit value (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Portugal	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>

### 8.2. Exposure controls

#### Appropriate engineering controls:

Provide adequate ventilation to minimize dust concentrations. Either local exhaust or general room ventilation is usually required. A washing facility/water for eye and skin cleaning purposes should be present.

#### Personal protective equipment:

Gloves. In case of dust production: protective goggles. Protective clothing. Respiratory protection.

#### Materials for protective clothing:

Wear chemical resistant protective clothing (EN 14605) and protective shoes (S1P or S3)

#### Hand protection:

Wear suitable gloves tested to EN 374. Thickness of glove material: > 0.11 mm. Breakthrough time : > 480 min. Nitrile rubber

#### Eye protection:

In case of dust production: protective goggles. EN 166

#### Respiratory protection:

Dust production: dust mask with filter type P2

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Solid. Powder.
Colour	: white.
Odour	: Slight fatty.
Odour threshold	: No data available
pH	: 7 - 9

# MAGNESIUM STEARATE

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 130 - 145 °C
Freezing point	: No data available
Boiling point	: not applicable
Flash point	: ≈ 190 °C C.O.C. method
Auto-ignition temperature	: 410 °C
Decomposition temperature	: > 200 °C
Flammability (solid, gas)	: 15 g/m <sup>3</sup> particles <74 µ
Vapour pressure	: No data available
Relative vapour density at 20 °C	: not applicable
Relative density	: No data available
Density	: 1,095 g/cm <sup>3</sup>
Solubility	: Water: Insoluble Organic solvent: partial
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: not explosive. Dust may form explosive mixture in air.
Oxidising properties	: not oxidizing.
Explosive limits	: No data available

### 9.2. Other information

Bulk density	: 140 - 200 g/cm <sup>3</sup>
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Oxidizing agent. alkalis.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Calcium oxides. Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### MAGNESIUM STEARATE (557-04-0)

LD50 oral rat	> 10 g/kg
Skin corrosion/irritation	: Not classified pH: 7 - 9
Serious eye damage/irritation	: Not classified pH: 7 - 9
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

# MAGNESIUM STEARATE

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

Acute aquatic toxicity : Not classified  
Chronic aquatic toxicity : Not classified

#### 12.2. Persistence and degradability

##### MAGNESIUM STEARATE (557-04-0)

Persistence and degradability	Readily biodegradable.
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#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Can be deposited in landfills, sent to an incineration or other appropriate means of disposal provided they meet the requirements of local laws.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

#### 14.6. Special precautions for user

##### - Overland transport

Not applicable

##### - Transport by sea

Not applicable

##### - Air transport

Not applicable

##### - Inland waterway transport

Not applicable

##### - Rail transport

Not applicable

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

MAGNESIUM STEARATE is not on the REACH Candidate List

MAGNESIUM STEARATE is not on the REACH Annex XIV List

##### 15.1.2. National regulations

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Germany

Reference to AwSV : Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 3; ID No. 3161)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

#### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

#### 15.2. Chemical safety assessment

CSA is not required

The substance is not hazardous

### SECTION 16: Other information

Abbreviations and acronyms:

	CLP - Classification, Labelling and Packaging
	REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
	SDS - Safety Data Sheet
	CSR - Chemical Safety Report
	Overland transport (ADR)
	CAS (Chemical Abstracts Service) number
	PBT - Persistent, Bioaccumulative and Toxic substance
	vPvB - Very Persistent and Very Bioaccumulative
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*