

SAFETY DATA SHEET



Trade name: Magnesium stearate, technical

Print Date: 24. June 2019

Version: 4.2, revision date: 14.03.2023

Replaced version: 3.2 / 02.01.2021

Region: EN

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

1.1. Product identifier

Trade name	Magnesium stearate, technical
REACH Registration Number	n.a.
Substance name	Fatty acids, C16-18 magnesium salts
CAS-No.	91031-63-9 (557-04-0)
EINECS-No.	292-967-2 (209-150-3)

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

Application of the substance / the mixture

Lubricant release additive

Uses advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company

SysKem Chemie GmbH
Brucknerweg 26
D-42289 Wuppertal

Telephone	+49 (0) 202/30999510
Telefax	+49 (0) 202/87088403
E-mail address	info@syskem.de

Prepared by / E-mail address of person responsible for the SDS

info@syskem.de

1.4. Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg, Tel. +49 761 19240.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance is not classified, according to the CLP regulation.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Void

Hazard pictograms

Void

Signal word

Void

Hazard statements

Void

2.3. Other hazards

Results of PBT and vPvB assessment

The substance is not classified as PBT or vPvB.

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SECTION 3: Composition/information on ingredients

3.1. Substances

%	Name	CAS-Number	EINECS-Number	Index-Number	Classification Regulation (CE) 1272/2008
100	Fatty acids, C16-18 magnesium salts Registration number: n.a.	91031-63-9 (557-04-0)	292-967-2 (209-150-3)	n.a.	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Not necessary.

Contact with skin:

Remove contaminated clothing immediately, and dispose of it in a controlled way.

Contact with eyes:

Because of mechanical irritation, wash with plenty of water for 10-15 minutes.

Ingestion:

Rinse out mouth and drink water.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Foam, dry powder, chemical powder, carbon anhydride, water spray.

Unsuitable extinguishing agents

Water with full jet

5.2. Special hazards arising from the substance or mixture

The fumes may contain magnesium oxide. Do not breathe the fumes, vapors or dust.

5.3. Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent dust formation. Remove ignition sources – do not smoke.



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6.2. Environmental precautions

Keep out of sewers, drains, surface and underground water and the ground.

6.3. Methods and material for containment and cleaning up

Spray spilled material with water and take it up mechanically. Store in a closed container.

6.4. Reference to other sections

No information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

The usual precautionary measures have to be applied when dealing with chemicals. Prevent dust depositing. Take preventive measures against dust explosion. Keep away from ignition sources.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original packing in dry conditions at room temperature, away from direct sunlight and strong odors.

7.3. Specific end use(s)

Lubricant release additive

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace exposure control

Substance	: n.a.
Air threshold value (TWA)	: n.a.
Biological limit	: n.a.
Notes	: n.a.

8.2. Exposure controls

Respiratory protective:

Use approved breathing mask (P2 filter).

Hand protection:

Gloves.

Eye protection:

Safety goggles.

Skin protection:

Protective work clothing.

Specific hygiene methods

Do not eat, drink or smoke while working. Wash hands before breaks. Change contaminated clothing. Clean whole body after working.

Additional information

Preventive skin-care lotion is recommended. Use anti-static working shoes.



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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance:	Powder
Colour:	White
Odour:	Typical
Melting point:	~150 °C
Freezing point:	n.a.
Cloud point:	n.a.
Boiling point:	n.a.
Flash point:	n.a.
Ignition temperature:	n.d.
Autoignition:	n.d.
Oxidising properties:	None
Danger of explosion	
- Product:	None
- Mixture powder/air:	n.d.
Explosion limits	
- Lower:	n.a.
- Upper:	n.a.
Vapour pressure (20 °C):	n.a.
Density (20 °C):	~ 1,03 g/ml
Apparent density:	~ 0,28 g/ml
Solubility	
- Water solubility:	negligible
- Fat solubility:	n.d.

9.2 Other information

pH-value (20 °C, H 2 O):	n.a.
Viscosity:	n.a.
Speed of evaporation:	n.a.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void



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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal storage and handling temperature.

10.2. Chemical stability

Stable if used in accordance with recommendations.

10.3. Possibility of hazardous reactions

Dust-air mixture can explode.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)

LD50 oral: >2 g/kg (rat)

Acute toxicity (dermal)

Not classified

Acute toxicity (inhalation)

Not classified

Skin corrosion/irritation

Not classified

Serious eye damage/eye irritation

Not classified

Respiratory or skin sensitisation

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified



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STOT - single exposure

Not classified

STOT - repeated exposure

Not classified

Aspiration toxicity

Not classified

11.2 Information on other hazards**Endocrine disrupting properties**

No further information available

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:**

Fish toxicity (LC50):	none
Bacteria toxicity (EC50):	n.d.
Alga toxicity (LC50):	n.d.
Daphnia toxicity (LC50):	n.d.

2.2 Persistence and degradability

Biodegradability:	
COD:	n.d.
DBO5:	n.d.
DBO28:	n.d.

12.3 Bioaccumulative potential

Distribution coefficient N-Octanol / Water:	0,8
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12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

The substance is not classified as PBT or vPvB.

12.6 Endocrine disrupting properties

No further information available

12.7 Other adverse effects

Water contamination class:	nwg (not hazardous for water).
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Recommendation

Dispose of the product according to local, state and federal regulations. Waste disposal by controlled incineration or designated landfill subject to applicable local, state and federal regulations.

Uncleaned packaging:

Recommendation

Contaminated packaging material: Controlled disposal according to applicable local, state and federal regulations.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied.



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SECTION 15: Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Directive 2012/18/EU

Named dangerous substances - ANNEX I

Substance is not listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

The product does not contain any substances of very high concern (SVHC)..

15.2. Chemical safety assessment:

No further relevant information available.



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SECTION 16: Other information

Full text of abbreviated H statements

Not applicable.

Full text of classifications

Not applicable.

Indication of changes

Alignment with Regulation: Regulation (EC) No 1907/2006 (REACH) as amended by 2020/878/EU.
Complete revision.

Key literature references and sources for data:

Chemical Safety Report

Training advice for workers

Not applicable.

Further information

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

ISO: International Organisation for Standardisation

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

NOEL: No observed effect level

NOEC: No observed effect concentration

LOEC: Lowest observed effect concentration

BCF: Bio concentration factor

EC50: Effect concentration, 50 percent