

Material Safety Data Sheet

Magnesium Ascorbyl Phosphate

according to EC Directive 1907/2006 (REACH)

Revision date: 08. December 2022

Section 1 - Identification of substance/mixture

1.1 Product Identifier:

Magnesium Ascorbyl Phosphate

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

Chemicals for use in cosmetics

Section 2 - Hazards identification

2.1 Classification of the mixture:

Not classified according to the Regulation (EC) No. 1272/2008.

2.2 Label elements:

Not relevant.

2.3 Other hazards:

None.

Not identified as PBT or vPvB according to the Annex XIII of the Regulation (EC)

No. 1907/2006 as amended.

Section 3 - Composition / information on ingredients

3.1 Substance

Magnesium Ascorbyl Phosphate

INCI Name: Magnesium Ascorbyl Phosphate

CAS No.: 114040-31-2 (appr. 88 %) – 278.4 g/mol

113170-55-1 (appr. 12 %) – 289.45 g/mol

CAS-Registry Name: L-Ascorbic acid, 2-(dihydrogen phosphate),
magnesium salt (2:3)

Technical name: L-Ascorbic acid, phosphate magnesium salt

Molecular formula: C₆H₇O₉P Mg (114040-31-2)

C₆H₆O₉P 3/2 Mg (113170-55-1)

3.2 Mixture:

none

Section 4 - First aid measures

4.1 Description of first aid measures:

Eye contact: Flush eyes gently with water for at least 15 minutes while holding eyelids apart: seek immediate medical attention.

Skin contact: Wash off with soap and plenty of water.

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quit; seek immediate medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects:

No data available.

4.3 Indication of any immediate medical attention:

No data available.

Section 5 - Firefighting measures

5.1 Extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance:

No data available.

5.3 Advice for firefighters:

Wear protective clothing to prevent contact with skin and eyes.

Wear self-contained breathing apparatus.

Section 6 - Accidental release measures

6.1 Personal precautions:

Avoid contact with skin and eyes.

6.2 Environmental precautions:

Do not let product enter drains, surface water or ground water.

6.3 Methods and materials for containment and cleaning up:

Remove with liquid-absorbing material (sand, peat, sawdust)

6.4 Reference to other sections:

For disposal see section 13.

Section 7 - Handling and storage

7.1 Precautions for safe handling:

Use with adequate ventilation where dust is formed. Avoid open flames. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, incl. any incompatibilities:

Store in original sealed containers at temperature between 10 - 25°C at a dry and light protected place.

7.3 Specific end use:

Cosmetic ingredient.

Section 8 - Exposure controls / personal protection

8.1 Control parameters:

No data available.

8.2 Personal protective equipment:

Respiratory protection:	Respirator with organic vapor cartridge. Not applicable with adequate ventilation.
Eye protection:	Safety glasses with side shields.
Hand protection:	Protective gloves made of plastic or rubber.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 - Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:	white to almost white powder
Colour of 3% solution:	APHA number \leq 70, clear
pH value (3% solution)	7.0 – 8.5
assay (HPLC):	\geq 98.5 %
Melting point/Freezing point:	no data available

Boiling point:	no data available
Flash point:	no data available
Decomposition point:	no data available
Autoignition temperature:	no data available
Evaporation rate:	no data available
Upper/lower flammability limits:	no data available
Vapor pressure:	no data available
Viscosity:	no data available

9.2 Other information:

No additional information available.

Section 10 - Stability and reactivity

10.1 Reactivity:

No unusual reactivity.

10.2 Chemical stability:

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

No data available.

10.5 Incompatible materials:

Strong oxidizing agents.

10.6 Other decomposition products:

Hazardous decomposition products formed under fire – Carbon oxides.

No information available.

Section 11 - Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	no data available
Skin corrosion/irritation:	no data available
Serious eye damage/irritation:	no data available
Respiratory or skin sensitization:	no data available
Germ cell mutagenicity:	no data available

Carcinogenicity:	no data available
Reproductive toxicity:	no data available
Teratogenicity:	no data available
STOT-SE:	no data available
STOT-RE:	no data available
Aspiration hazard:	no data available

Section 12 - Ecological information

12.1 Toxicity:

no data available

12.2 Persistence and degradability:

no data available

12.3 Bioaccumulative potential:

no data available

12.4 Mobility in soil:

no data available

12.5 Results of PBT and vPvB assessment:

no data available

12.6 Endocrine disrupting properties:

no data available

12.7 Other adverse effects:

slightly hazardous to water (water hazard class 1)

Section 13 - Disposal considerations

13.1 Waste treatment methods:

Waste must be disposed in accordance with local, regional and national environmental regulations.

Contaminated packaging:

Dispose of as unused product.

Section 14 - Transport information

Land transport (ADR/RID)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards:

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user:

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments:

No dangerous good in sense of this transport regulation.

Section 15 - Regulatory information

15.1 Safety, health and environmental Regulations/legislation specific for the substance:

Regulation (EC) No. 1907/2006 (REACH)

Regulation (EC) No. 1272/2008 (CLP/EU-GHS)

Regulation (EC) No. 1223/2009 (Cosmetic Regulation)

EU regulatory information:

2004/42/EC (VOC): 0%

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2 Chemical safety assessment:

For this substance a chemical safety assessment has not been carried out.

Section 16 - Other information

16.1 Changes:

This data sheet contains changes from the previous version in section(s):

1,14,15,16

16.2 Abbreviations:

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

IARC: International Agency for Research on Cancer

INCI: International Nomenclature of Cosmetic Ingredients

PBT : persistent, bio-accumulative, toxic for reproduction

vPvB: very persistent, very bio-accumulative

ADR:	Accord européen relatif au transport international des marchandises Dangereuses par Route
RID:	Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN:	Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG:	International Maritime Code for Dangerous Goods
IATA/ICAO:	International Air Transport Association / International Civil Aviation Organization
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
REACH:	Registration, Evaluation, Authorization and Restriction of Chemicals
EN:	European norm
ISO:	International Organization for Standardization
DIN:	Deutsche Industrie Norm

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