

Information Safety data sheet
according to 1907/2006/EC (Article 32) and subsequent amendments

Printing date 14.03.2023

Version number 2 (replaces version 1)

Revision: 14.03.2023

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

- 1.1 Product identifier

- Trade name: **MAGNESIUM CITRATE**

- Chemical Identification: Trimagnesium dicitrate

- Article number: MP 019119

- CAS Number:

3344-18-1

- EC number:

222-093-9

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

- Application of the substance / the mixture

Industrial auxiliary

Cosmetics additive.

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

ECSA Chemicals AG

Via Luigi Favre 16 - CH-6828 Balerna (Chiasso); Burgauerstrasse 17 - CH-9230 Flawil (SG) tel.+41 58 211 91 00

- fax +41 58 211 91 01

ECSA Maintenance AG

Burgauerstrasse 17 - CH-9230 Flawil (SG) tel.+41 58 211 93 00 - fax +41 58 211 93 01

ECSA Energy SA

Via Luigi Favre 16 - CH-6828 Balerna (Chiasso) tel.+41 58 211 95 00 - fax +41 58 211 95 01

ECSA ITALIA Srl Società con Unico Socio

Via Lav. Autobianchi 1 - I-20832 Desio (MB) tel. +39 0362 625 421 - fax +39 0362 304 361

- Informing department: Product Safety Department

*** SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

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

- PBT: Not applicable.

- vPvB: Not applicable.

*** SECTION 3: Composition/information on ingredients**

- 3.1 Substances

- CAS No. Designation:

3344-18-1 Trimagnesium dicitrate

- Identification number(s):

- EC number: 222-093-9

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*** SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information** No special measures required.
- **After inhalation**
Supply fresh air; consult doctor in case of symptoms.



In case of unconsciousness bring patient into stable side position for transport.

- **After skin contact**
Remove contaminated clothing.
Instantly rinse with water.
If the skin is irritated, consult a doctor.
- **After eye contact**
Remove contact lenses, if present and easy to do.
Rinse opened eye for several minutes under running water.
- **After swallowing**
Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Wash out mouth with water if person is conscious.
- **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** Treat symptomatically.

*** SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** foam, dry chemical, carbon dioxide (CO₂), water spray
- **For safety reasons unsuitable extinguishing agents**
Do not use water jet as an extinguisher, as this will spread the fire.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Carbon oxides (CO_x)
metal oxide / oxides
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves)

*** SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Avoid causing dust.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Vacuuming can prevent the dust formation.
Send for recovery or disposal in closed suitable containers.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

*** SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Prevent formation of dust.

- Information about protection against explosions and fires:

No special measures required.

Keep ignition sources away - Do not smoke.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage

- Requirements to be met by storerooms and containers:

Do not store in unmarked containers or vessel.

Store in closed containers.

- Information about storage in one common storage facility:

Incompatible products:

oxidizing agents

- Further information about storage conditions:

Protect from humidity and keep away from water.

Store under dry conditions.

- 7.3 Specific end use(s) No further relevant information available.

*** SECTION 8: Exposure controls/personal protection**

- 8.1 Control parameters

- Components with limit values that require monitoring at the workplace: Not required.

- 8.2 Exposure controls

Appropriate engineering controls:

Ensure good ventilation in the workplace

Limit the formation of dust

- Individual protection measures, such as personal protective equipment

- General protective and hygienic measures

The usual precautionary measures should be adhered to general rules for handling chemicals.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

- Breathing equipment:

Not required.

Use breathing protection in case of insufficient ventilation.

wear dust mask

- Hand protection

Protective gloves.

Chemical resistant gloves (EN 374)

- Material of gloves

Rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye/face protection

Safety glasses recommended.

Equipment should conform to EN 166.

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- Body protection:

Use protective suit.

Safety shoes.

- Environmental exposure controls Do not allow product to reach drains and waterways.*** SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- Appearance:****- Form:**

Solid

- Colour:

White

- Odour:

Odourless

- Odour threshold:

Not determined.

- Melting point/freezing point:

184 °C

- Boiling point or initial boiling point and boiling range Decomposes before boiling

Not determined

- Flammability

Product is not inflammable.

- Lower and upper explosion limit**- Lower:**

Not determined.

- Upper:

Not determined.

- Flash point:

Not applicable

- Ignition temperature:

Not determined

- Decomposition temperature:

Not determined.

- pH

Not applicable.

- Viscosity:**- Kinematic viscosity**

Not applicable.

- dynamic:

Not applicable.

- Solubility**- Water:**

Partly soluble

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

-0.2 to -1.8 log Kow (Citric acid)

- Vapour pressure:

Not applicable.

- Density and/or relative density**- Density**

Not determined

- Relative density at 20 °C

ca. 1.7-2.0

- Vapour density

Not applicable.

- Particle characteristics

See item 3.

- 9.2 Other information**- Important information on protection of health and environment, and on safety.****- Self-inflammability:**

Not determined.

- Explosive properties:

Product is not explosive.

- Change in condition**- Softening point/range****- Oxidising properties**

Not determined

- Evaporation rate

Not applicable.

- 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

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- 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

* SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** Avoid dust formation.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
In case of fire may be released:
Magnesium oxide
Toxic metal oxide smoke
Carbon oxides (COx)

* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

3344-18-1 DICITRATO DI TRI MAGNESIO

Oral	LD50	5,400 mg/kg (mouse) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

- **Skin corrosion/irritation**
Not irritant
Test on rabbit.
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
- **Serious eye damage/irritation**
Not irritant
Test on rabbit
OECD Guideline 405 (Acute Eye Irritation / Corrosion)
- **Respiratory or skin sensitisation**
Not sensitizing for skin.
Maximisation test on Guinea pig (OECD 406).
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** No further information available

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

Substance is not listed.

* **SECTION 12: Ecological information****- 12.1 Toxicity****- Aquatic toxicity:****3344-18-1 DICITRATO DI TRI MAGNESIO**LC50/48 h | 440-760 mg/l (*Leuciscus idus*) (OECD 203)LC50/24h | 1,535 mg/l (*Daphnia*)**- 12.2 Persistence and degradability**

The product is biodegradable.

(OECD 301B)

- 12.3 Bioaccumulative potential Less bioaccumulative**- 12.4 Mobility in soil** Niedriges Potential der Migration durch den Boden.**- 12.5 Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**- 12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.**- 12.7 Other adverse effects****- Additional ecological information:****- General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.* **SECTION 13: Disposal considerations****- 13.1 Waste treatment methods****- Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

- Waste disposal key number: HP 15 Reg.1357/2014/UE**- Uncleaned packagings:****- Recommendation:** Disposal must be made according to official regulations.* **SECTION 14: Transport information****- 14.1 UN number or ID number****- ADR, ADN, IMDG, IATA**

Void

- 14.2 UN proper shipping name**- ADR, ADN, IMDG, IATA**

Void

- 14.3 Transport hazard class(es)**- ADR, ADN, IMDG, IATA****- Class**

Void

- 14.4 Packing group**- ADR, IMDG, IATA**

Void

- 14.5 Environmental hazards:

Not applicable.

- 14.6 Special precautions for user

Not applicable.

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- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
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- UN "Model Regulation":	Void
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*** SECTION 15: Regulatory information**

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

Regulation (EC) n° 1907/2006

Regulation (EC) n° 1272/2008

Regulation (EC) n° 830/2015

Regulation (EC) n° 487/2013

Regulation (EC) n° 878/2020

OPChim 813.11

Authorization in accordance with REACH regulation (CE n. 1907/2006 and subsequent amendments and integration):

the product is not included in the list of substance of very high concern (SVHC) candidate for authorization.

- **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.

- **REGULATION (EU) 2019/1148**

- 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
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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.

- **National regulations**- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*** SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:** Environment protection department.- **Date of previous version:** 10.05.2017- **Version number of previous version:** 1- **Abbreviations and acronyms:**

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)

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*LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**- Sources ECHA Registered Substances Database**- * Data compared to the previous version altered.*

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