

Safety data sheet

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020

Creation date : 01/01/20
Revision date : 02/03/2023
Version: 5



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

1.1 Product identifier

A. Trade name **CALCIUM MAGNESIUM SUPPLEMENT**

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

Relevant identified uses of the substance or mixture Calcium Magnesium Supplement is a calcium and magnesium supplement for plant nutrient solution.

Uses advised against Any use not specified in this section or in section 7.3

Use descriptor system (REACH) No data available (not applicable: IK).

1.3 Details of the supplier of the safety data sheet

Company's name Terra Aquatica
Address 4 Boulevard du Biopole, 32500 Fleurance
Phone number +33 (0)5 62 06 08 30
E-mail address info@terraaquatica.com

1.4 Emergency telephone number

Medical / rescue services **999**
Fire and rescue **999**
Police **101**
EU emergency call line **112**
ORFILA Toxicological Information Center (INRS) **(+) 33 01 45 41 59 59**
Toxicological information center
South West **(+)33 05 61 77 74 47**

2 SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Reg. 1272/2008/CLP In accordance with Regulation No. 1272/2008 (CLP)
Additional information None
Hazards for humans Yes, eye damage
Environmental risks None
Physico-chemical hazards None
Other hazards

2.2 Label elements

In accordance with Reg. 1272/2008/CLP and its adaptations

Danger pictogram



Hazard Word DANGER

Hazardous substances to be indicated on the label None

Hazard statement

H318 Causes serious eye damage.

Warning statement

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220 Keep away from clothing and other combustible materials.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301 IF SWALLOWED:
- P312 Call a POISON CENTER/doctor/... if you feel unwell.
- P102 Keep out of reach of children.

Additional information on hazards (EU)

2.3 Other hazards None

3 SECTION 3 Composition/information on ingredients

3.1 Substances Non applicable

3.2 Mixtures Calcium Magnesium Supplement
 Calcium Magnesium Supplement is a blend of mineral salts, formulated and mixed in proportions that ensure optimal nutrition for plants. The exact nature of the salts and their proportions are a manufacturing secret. However, they are derived from :
 Calcium nitrate and magnesium nitrate.

In case of eye contact

Chemical Name

Calcium nitrate

Concentration

16%

CAS NO.

15245-12-2

Additional data for identification of hazardous substances

Non applicable

4 SECTION 4 First aid measures

No known incidents of damage to persons who have used this product.

However, in case of doubt or if symptoms persist, seek medical attention. Do not give anything by mouth to an unconscious person.

4.1 Description of first aid measures

In case of eye contact

Immediately flush eyes, including under the eyelids, with plenty of clean, clear water for at least 15 minutes.

In case of skin contact

Rinse thoroughly with water for at least 15 minutes. Remove contaminated clothing. If the skin is red or puffy, or if an irritation persists, consult a doctor.

In case of ingestion/aspiration

Do not give anything by mouth to an unconscious or convulsing person. If a person has swallowed this product and is conscious, give small amounts of water to drink to dilute the product.

In case of inhalation

Under normal conditions of use, inhalation is unlikely. If inhaled, move to fresh air and if necessary, assist breathing. In case of breathing difficulties, consult a doctor as soon as possible.

Protection of first aid providers

Depending on the first aid context, wear appropriate protective equipment including a mask or filtered respirator. Always wear protective gloves and a resuscitation mask in case of artificial respiration. Wash hands thoroughly after first aid. If your clothing is contaminated with a chemical substance during first aid administration, change them.

	Other data	For further details of first aid administration, including but not limited to more serious health effects, the doctor may consult the Toxicological Information Centre, hotline: see section 1.4
4.2	Most important symptoms and effects, both acute and delayed	No known symptoms
4.3	Indication of any immediate medical attention and special treatment needed	No known data
5	SECTION 5 Firefighting measures	
5.1	Extinguishing media	The product is not flammable. Fire hazard low due to the flammability characteristics of the product under normal storage, handling and use conditions.
	Suitable extinguishing media for a surrounding fire	Use dry chemical, carbon dioxide, water spray (mist) or foam.
	Inappropriate extinguishing media	In case of fire, do not use: Water jet
5.2	Special hazards arising from the substance or mixture	<p>Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.</p> <p>A fire in the surrounding area will often produce thick black smoke. Exposure to compositional products may pose health risks. Do not breathe dust, vapours or fumes released by the combustion of products.</p> <p>Decomposition products may include the following materials: oxides of nitrogen ammonia</p> <p>This product is toxic to aquatic life. Fire water contaminated with this product should be contained and prevented from entering a watercourse or sewer.</p>
5.3	Advice for firefighters	
	Protective actions to be taken when fighting fires	<p>Quickly isolate the area by evacuating all persons from the area near the incident in the event of a fire. Do not take any action involving personal risk or in the absence of adequate training.</p> <p>Keep containers away from fire if it can be done without risk. Use water or spray to keep containers exposed to fire cool. Beware of water flows resulting from firefighting. Do not discharge fire extinguishing material into drains or sewers.</p>
	Appropriate protective equipment	The product is not combustible. In the event of a fire in the surrounding area, appropriate extinguishing media and protective equipment may be used for the other materials present (full protective clothing and personal respiratory equipment), in accordance with EN469 for a basic level of protection against chemical incidents. Have a minimum of emergency facilities or intervention elements (fire blankets, medicine kit, etc.) in accordance with Directive 89/654/EC.
5.4	Other data	Not applicable
6	SECTION 6 Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures	

6.1.1	For non-emergency personnel	Ensure proper ventilation. Wear gloves and safety glasses to avoid stains or risk of splashing. In case of accidental release of large quantities, evacuate all personnel and allow access only to trained personnel wearing appropriate personal protective equipment (see section 8).
6.1.2	For emergency responders	Workers will be equipped with personal protective equipment appropriate to the possible hazards. (See section 8)
6.2	Environmental precautions	Avoid contamination of sewers, surface water and groundwater. If this happens, inform the competent authorities.
6.3	Methods and material for containment and cleaning up	
6.3.1	Containment method	Sewer coverage Collect the spilled product by mechanical means and remove any residues by water jets. Provide adequate ventilation at the location of the spill. The disposal of the contaminated material must be carried out in accordance with the provisions of point 13.
6.3.2	Cleaning procedure	
	Other information	Do not put the spilled product in contact with combustible or incompatible materials. Cleaning personnel must wear equipment to protect skin and eyes. Small amounts of product can be mopped with inert, non-combustible materials such as sand or soil. These materials must then be placed in appropriate containers. Do not dispose of in gutters or sewers. Do not discard any residue.
6.4	Reference to other sections	Collect the remains in an identified container: see point 13 for disposal. Personal protective equipment: see section 8 Withdrawal considerations: see section 13. See section 1 for emergency contact information.

7 SECTION 7 Handling and storage

7.1	Precautions for safe handling	Avoid formation of suspended particles and dispersion of the product in the air. Provide adequate ventilation in areas where suspended particles develop. Keep away from flames and sparks. Do not smoke. Keep away from heat and other sources of fire. Do not eat, drink or smoke in work areas. Wash hands after each use.
7.2	Conditions for safe storage, including any incompatibilities	Ensure adequate local ventilation or extraction. Store in a cool, dry place. Keep container tightly closed in a dry, well-ventilated place. Close containers before and after each use to avoid sources of moisture or heat. If possible in areas with waterproof pavement.
7.3	Specific end use(s)	No specific end uses. Good practice: keep in closed and labeled containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with impervious pavement.

8 SECTION 8 Exposure controls/personal protection

8.1	Control parameters	Not applicable Follow good industrial hygiene practices.
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	No particular control
8.2.2	Individual protection measures, such as personal protective equipment	Use individual protections placed on the market in accordance with the provisions of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016. Personal protective equipment must be adapted to the risk, kept clean and properly maintained in accordance with the provisions of the Labour Code.
a)	Eye/face protection	It is necessary to wear protective glasses in accordance with the NF EN166 standard before any handling of products in order to avoid the risks of projection.
b)	Skin protection	Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product to avoid stains. Use suitable chemical-resistant protective gloves in accordance with NF EN374.
c)	Respiratory protection	Ensure adequate ventilation, especially in enclosed areas. Respiratory protection device not required.
	Body protection	Wear appropriate protective clothing. After contact with the product, all soiled body parts should be washed.
8.3	Environmental exposure controls	No data available. Biodegradable product

9 SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Physical state	All Calcium Magnesium Supplement compounds are in aqueous solution.
b)	Colour	Transparent
c)	Odour	No odor
d)	Melting point/freezing point	.-1°C (30.2°F)/Not determined
e)	Boiling point or initial boiling point and boiling range	101°C (213.8°F)
f)	Flammability	Non inflammable
g)	Lower and upper explosion limit	Not applicable
h)	Flash point	Not determined
i)	Auto-ignition temperature	Not determined
j)	Decomposition temperature	Not determined
k)	pH	6
l)	Kinematic viscosity	Not determined
m)	Solubility	Entirely soluble
n)	Partition coefficient n-octanol/water (log value)	Not determined
o)	Vapour pressure	Not determined
p)	Density and/or relative density	1.12
q)	Relative vapour density	Not determined
r)	Particle characteristics	Not determined

9.2 Other information

9.2.1	Information with regard to physical hazard classes	None
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10 SECTION 10 Stability and reactivity

10.1	Reactivity	Stable. No particular risk of reaction with other materials under normal conditions of use.
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10.2	Chemical stability	Calcium Magnesium Supplement is stable at room temperature in closed packages and under normal storage and handling conditions.
		No hazardous polymerization can be produced by any of these components.
10.3	Possibility of hazardous reactions	No risk of dangerous reactions under normal use and storage conditions
10.4	Conditions to avoid	No special conditions to avoid.
10.5	Incompatible materials	Calcium Magnesium Supplement contains elements that are strong oxidizers that can react with strong bases to give off ammonium. It can also react with strong reducing agents.
10.6	Hazardous decomposition products	Under normal conditions of storage and use, no hazardous decomposition products should be produced.

11 SECTION 11 Toxicological information

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

a)	Acute toxicity Product/ Ingredient (component)	Nitric acid, ammonium and calcium salt
	Result/ Dose/ Species/ Exposure	OECD 423 CSD 50 oral/ 500mg/kg/ Rat/ Not applicable CSD 50 dermal/ 2000mg - 5000 mg/kg/ Rat/ Not applicable
	Conclusion	No known significant effects or critical hazards.
b)	Skin corrosion/irritation	Non-irritating to the skin
c)	Serious eye damage/irritation Product/ Ingredient (component)	Causes serious eye damage. Nitric acid, ammonium and calcium salt
	Result/ Dose/ Species/ Exposure	OECD 405 Eyes/ damage / Rabbit/ 24h-72h
d)	Respiratory or skin sensitisation	Non-irritating to the skin
e)	Germ cell mutagenicity	No known significant effects or critical hazards.
f)	Carcinogenicity	No known significant effects or critical hazards.
g)	Reproductive toxicity	No known significant effects or critical hazards.
h)	STOT-single exposure	No data available
i)	STOT-repeated exposure	No data available
j)	Aspiration hazard	No data available
11.1.5	Information on likely routes of exposure	
	Ingestion	Unlikely route of exposure under normal conditions of use. No known significant effects or critical hazards.
	Inhalation	Unlikely route of exposure under normal conditions of use. No known significant effects or critical hazards.
	Skin exposure	No known significant effects or critical hazards.
	Eye Exposure	Causes serious eye damage.
11.1.6	Symptoms related to the physical, chemical and toxicological characteristics	No known effect
11.1.7	Delayed and immediate effects as well as chronic effects from short and long-term exposure	No known effect

11.1.8	Interactive effects	No data available
11.1.9	Absence of specific data	No data available
11.1.10	Mixtures	No data available
11.1.11	Mixture versus substance information	No known adverse effects or symptoms resulting from exposure to the mixture.
11.2	Information on other hazards	
11.2.1	Endocrine disrupting properties	No data available

12 SECTION 12 Ecological information

12.1	Toxicity	Not known risks.
	Product / Ingredient (Component)	Nitric acid, ammonium and calcium salt
	Method /Result / Species / Exposure	Acute LC50 fresh water/ 447 mg/l / fish/ 48 OECD 202 Acute EC50 fresh water/ >100mg/l/ Daphnia / 48h OECD 201 Acute LC50 fresh water/ >100 mg/l / Algae / 72h
12.2	Persistence and degradability	Easily biodegradable by plants and soil. The product does not show any bioaccumulation phenomena.
12.3	Bioaccumulative potential	The product is not expected to cause any effect on the environment if used properly according to the recommendations.
12.4	Mobility in soil	This product can be carried by groundwater seepage or surface runoff because it is completely soluble.
12.5	Results of PBT and vPvB assessment	No data available to date to the best of our knowledge
12.6	Endocrine disrupting properties	No data available to date to the best of our knowledge
12.7	Other adverse effects	No known significant effects or critical hazards.

13 SECTION 13 Disposal considerations

13.1	Waste treatment methods	Do not discharge into sewers or waterways. Waste: Waste management is carried out without endangering human health and without harming the environment, including without creating a risk to water, air, soil, fauna and flora. Recycle or dispose of in accordance with current legislation, preferably by an approved collector or company. Disposal of the product/packaging: it is prohibited to discharge it into sewers or waterways. Residues and empty containers must be handled and disposed of in accordance with the relevant local/national legislation in force. Follow the provisions of Directive 2008/98/EC on waste management. Recover the product as much as possible. Follow local legislation.
	Waste List Code	Not determined

14 SECTION 14 Transport information

14.1	UN number or ID number	Non-hazardous transport
14.2	UN proper shipping name	Non-hazardous transport
14.3	Transport hazard class(es)	
	ADR	Non-hazardous transport
	IMDG	Non-hazardous transport
	OACI/IATA	Non-hazardous transport
14.4	Packing group	Non-hazardous transport
14.5	Environmental hazards	Non-hazardous transport
14.6	Special precautions for user	Non-hazardous transport

14.7	Maritime transport in bulk according to IMO instruments	Non-hazardous transport
15	SECTION 15 Regulatory information	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	Reg. 1272/2008/EC	The product does not contain substances that can be classified as carcinogenic. 1 or 2 according to Reg.1272/2008/EC and subsequent updates.
	Reg. 830/2015/EC (REACH)	Not applicable
	Special risks	None to our knowledge.
15.2	Chemical safety assessment	Evaluation not carried out
16	SECTION 16 Other information	
16.1	Abbreviations and acronyms	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>CAS NUMBER: Chemical Abstract Service number</p> <p>EC50: Concentration that gives effect to 50% of the test population.</p> <p>EC NUMBER: Identification number in ESIS (European archive of existing substances)</p> <p>CLP: Regulation EC 1272/2008</p> <p>DNEL: Calculated No Effect Level</p> <p>IATA DGR: International Air Transport Association Dangerous Goods Regulations</p> <p>IMDG: International Maritime Dangerous Goods Code</p> <p>IMO: International Maritime Organization</p> <p>LC50: Lethal concentration 50</p> <p>LD50: Lethal Dose 50%.</p> <p>OEL: Occupational Exposure Level</p> <p>PBT: Persistent, Bioaccumulative and Toxic according to REACH</p> <p>PEC: Predicted Environmental Concentration</p> <p>PEL: Predicted Exposure Level</p> <p>PNEC: Predicted No Effect Concentration</p> <p>REACH: Regulation EC 1907/2006</p> <p>vPvB: Very Persistent and Bioaccumulative according to REACH</p>
16.2	Bibliographical references	<p>Regulation (EC) 1907/2006 of the European Parliament (REACH)</p> <p>Regulation (EC) 1272/2008 of the European Parliament (CLP)</p> <p>Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)</p> <p>Regulation (EC) 453/2010 of the European Parliament</p> <p>Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)</p> <p>INRS - Toxicological Data Sheet</p> <p>Patty - Industrial hygiene and toxicology</p> <p>ECHA website</p>
16.3	Changes from the previous version	
	New version date	02/03/2023
	Previous version date	03/01/2022
	Version	5

Modified elements

16.4 Note

Updated In accordance with Regulation (EU) 2020/878; 3.2; section 11 and 12

This safety data sheet complies with the requirements established by Commission Regulation (EU) 2020/878 of 18 June 2020. It does not exempt the user from knowing and applying all the documents governing his activity. The user is responsible for taking precautions related to the specific use of the product. All regulatory requirements listed are intended simply to assist the recipient in fulfilling their responsibilities. This list should not be considered exhaustive. This sheet supplements the technical instructions for use but does not replace them. This safety data sheet has been compiled by Terra Aquatica on the basis of its current knowledge (safety data sheets of the active ingredients compiled by the manufacturer and other literature). The information contained herein is based on our knowledge of the product at the date indicated. It is given in good faith. The user's attention is drawn to the possible risks involved when a product is used for purposes other than those for which it was created.

The information describes the safety aspects of the product. They are not intended to guarantee specific properties.

The recipient must ensure that he is not responsible for anything other than the mentioned texts. It is the responsibility of the users to observe the applicable regulations.