

Safety Data Sheet
 according 1907/2006/EC (REACH), 2015/830/EU

Calcium Magnesium Supplement

Date : 01/01/2008

Version No. 3

Review date: 21/02/2020

1	SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING	
1.1	A. Product 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 and Magnesium Supplement for nutrient solution. Uses advised against: Any use not specified in this section or in section 7.3 Use Descriptor System (REACH): No data available (non-applicable: IK).
1.3	Details of the supplier of the safety data sheet	
	Supplier identification	Terra Aquatica Sarl (GHE)
	Address	Route de Lecture, 32500 Fleurance
	Phone number	+33 (0)5 62 06 08 30
	E-mail address	info@eurohydro.com
1.4	Emergency telephone number	
	Medical services/ emergency services	15
	Fire and rescue services	18
	Police	17
	EU Emergency call line	112
	Toxicological Information Centre ORFILA (INRS)	01 45 41 59 59
	Toxicological Information Centre South West	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), the product is not considered dangerous (IK).
	Additional information :	

	Hazards for humans	None	
	Enviromental hazards	None	
	Physico-chemical hazards	None	
	Other hazards	None	
2.2	Labelling elements		
	Labelling according to Regulation (EC) No 1272/2008 [CLP] and its adaptations		
	Hazard pictograms	None	
	Signal word	None	
	Hazardous substances to be indicated on the label	None	
	Hazard statements H:	None	
	Precautionary statements P:	P phrases P102 Keep out of reach of children	
2.3	Other hazards		
	Reg. 1272/2008/CLP	None	
3	SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS		
3.1	Substances	Non applicable	
3.2	Mixtures Name	Calcium Magnesium Supplement	
	Mixtures classified as dangerous	Non applicable	
	Description	Calcium magnesium supplement is a mixture of mineral salts, which are formulated and blended in proportions that ensure optimal nutrition for plants. The exact nature of the salts and their proportions are a manufacturing secret. However, they are derivatives of calcium and magnesium nitrates.	
	Chemical name	Concentration (%)	CAS number
	Calcium nitrate	16%	12245-12-2
	Magnesium nitrate	4%	13446-18-9
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. The general measures described below should be adopted:		
4.1	Description of first aid measures		
	Following eye contact	Wash immediately with plenty of water, keeping the eyelids well apart, and seek medical attention.	
	Following skin contact	Rinse thoroughly with with plenty of soapy water. Remove soaked clothing.	
	Following ingestion	Do not induce vomiting, seek medical attention immediately by showing the product label.	

	Following inhalation	Move the victim to fresh air. Keep the victim warm and at rest. In case of breathing difficulty: call a doctor.
	Self-protection of the first aider	Depending on the first aid situation, wear appropriate protective equipment including a mask or filtered respirator and, if necessary, operate in the presence of another co-worker. Always wear protective gloves and a resuscitation mask in case of artificial respiration. Wash hands thoroughly after giving first aid. If your clothing becomes contaminated with a chemical during first aid procedures, change it.
	Other information	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 effects
4.3	Indication of any immediate medical attention and special treatment needed	If decomposition products are inhaled during a fire, symptoms may be delayed. The exposed person may need to be placed under medical supervision for 48 hours.
5	SECTION 5 : FIREFIGHTING MEASURES	
5.1	Extinguishing media	<p>The product is not flammable. Fire hazard low due to the flammability characteristics of the product under normal storage, handling and use conditions.</p> <p>Suitable extinguishing media for a surrounding fire: In the event of continued combustion, caused by improper handling, storage or use, the following extinguishing media may be used: carbon dioxide (CO₂), foam, chemical powders, and in the event of a widespread fire, also water spray.</p> <p>Inappropriate extinguishing media: In case of fire, do not use: Water jet</p>
5.2	Special hazards arising from the substance or mixture	<p>Hazards due to the substance or mixture: 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>Risk related to thermal decomposition products: 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 :</p> <ul style="list-style-type: none"> nitrogen oxides sulphur oxides phosphorus oxides metal oxide / metal oxides <p>This product is toxic to any aquatic life. Fire water contaminated with this product should be contained and prevented from being discharged to a watercourse or sewer.</p>
	Advice for firefighters	<p><u>Protective actions to be taken when fighting fires</u></p> <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</p>

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 exhaust. 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. Store in areas with waterproof pavement.
7.3	Specific end use(s)	No specific end uses. Good practices: keep in closed containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with waterproof pavement.
8	SECTION 8 : EXHIBITION CONTROLS/INDIVIDUAL PROTECTION	
8.1	Control parameters	Not applicable Use good industrial hygiene practices.
8.2	Exposure controls	
	Appropriate engineering controls	No particular control. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
	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.
	Eye/face protection	It is necessary to wear safety glasses that comply with the NF EN166 standard before handling any products to avoid risks of splashing.
	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.
	Respiratory protection	Ensure adequate ventilation, especially in enclosed areas.
	Body protection	Wear appropriate protective clothing. After contact with the product, all parts of the body that have been in contact with the product must be thoroughly washed.
	Environmental exposure controls	No data available.
9	SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on basic physical and chemical properties	
	Appearance	Physical state: All Calcium Magnesium Supplement compounds are in aqueous solution. Color: Transparent
	Odour	None
	pH	6

	Melting point	-1°C (30.2°F)
	Freezing point	Not determined
	Initial boiling point and boiling range	101°C (213.8°F)
	Flash point	Not determined
	Evaporation rate	Not determined
	Flammability (solid, gas)	Non inflammable
	Upper/lower flammability or explosive limits	Not applicable
	Vapour pressure	Not determined
	Vapour density	Not determined
	Relative density	1.12
	Solubility(ies) 20°C	Entirely soluble
	Partition coefficient: n-octanol/water	Not determined
	Auto-ignition temperature	Not determined
	Decomposition temperature	Not determined
	Viscosity	Not determined
	Explosive properties	Not determined
	Oxidising properties	Not determined
	Refraction index	Not determined
	Rotary power	Not determined
9.2	Other information	
	No other information	
10	SECTION 10 : STABILITY AND REACTIVITY	
10.1	Reactivity	Stable. No particular risk of reaction with other materials under normal conditions of use.
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. Follow standard safety practices regarding chemicals.
10.5	Incompatible materials	Calcium Magnesium Supplement contains powerful oxidizing elements that can react with strong bases releasing ammonium. It can also react with powerful reducing agents.
10.6	Hazardous decomposition products	At very high temperatures, decomposition products are formed: phosphorus oxide, magnesium oxide, potassium oxide(s), carbon monoxide and sulphur oxide(s).
11	SECTION 11 : TOXICOLOGICAL INFORMATION	
11.1	Information on toxicological effects	

	(a) acute toxicity				
	Product/ingredient	Result	Species	Dose	Exposure
	Magnesium nitrate	DLC50 orale	Rat	>2.000mg/kg	Not applicable
	Potassium nitrate	DLC 50 Cutanée	Rat	>5.000 mg/kg	Not applicable
		DLC50 orale	Rat	> 2.000 mg/kg	
		DLC 50 Cutanée	Rat	>2.000 mg/kg	
	(b) skin corrosion/irritation; (c) serious eye damage/irritation; (d) respiratory or skin sensitisation; (e) germ cell mutagenicity; (f) carcinogenicity; (g) reproductive toxicity; (h) STOT-single exposure; (i) STOT-repeated exposure; (j) aspiration hazard	No available data			
	Symptoms related to the physical, chemical and toxicological characteristics	Ingestion: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards. Skin Exposure: Mild irritation. No known significant effects or critical hazards. Eye Exposure: Mild irritation. No known significant effects or critical hazards.			
	Delayed and immediate effects as well as chronic effects from short- and long-term exposure	No known effects			
	Interactive effects	No known health effects			
	Absence of specific data	No data available			
	Mixtures	No data available			
	Mixture versus substance information	Mixture not containing substances subject to registration. No known adverse effects or symptoms resulting from exposure to the mixture or its components.			
	Other information	Comply with good industrial hygiene practices			
12	SECTION 12 : ECOLOGICAL INFORMATION				
12.1	Toxicity	Not applicable			
	Product/ingredient	Result	Species	Exposure	
	Ammonium nitrate	Chronic NOEC 6-12 mg/L - Freshwater	Cladocera crustaceans	21 days	
	Potassium nitrate	Acute LC50 1.378 mg/L freshwater OECD 203	Daphnie	48h	
		Acute EC50 490 mg/L Freshwater Acute EC50 > 1,700 mg/l Fresh water	Algae	240h	
12.2	Persistence and degradability	No data available at the present state of our knowledge.			
12.3	Bioaccumulative potential	No data available at the present state of our knowledge.			

12.4	Mobility in soil	No data available to date to the best of our knowledge. Waste generation should be avoided or minimized as much as possible, and the product should not be discharged into sewers or waterways.
12.5	Results of PBT and vPvB assessment	No data available to date to the best of our knowledge
12.6	Other adverse effects	No data available to date to the best of our knowledge
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 codes / waste designations according to LoW:	Not applicable
14	SECTION 14 : TRANSPORT INFORMATION	
Non-hazardous transport. In the event of an accident and product spillage, proceed as described in point 6		
14.1	UN number	Non-hazardous transport
14.2	UN proper shipping name	Non-hazardous transport
14.3	Transport hazard class(es)	Non-hazardous transport
	ADR	Non-hazardous transport
	IMDG 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	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Non applicable/ 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/CE	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/CE (REACH)	Not applicable
	Special hazards	To our knowledge, none.
15.2	Chemical safety assessment	Evaluation not carried out
16	SECTION 16 : OTHER INFORMATION	
16.1	Abbreviations and acronyms:	ETA = Acute Toxicity Estimation CLP = Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures DNEL = Derived no-effect dose DMEL = Derived no-effect dose EUH = Specific hazard statement CLP CPSE = Predicted no-effect concentration RRN = REACH registration number PTB = Persistent, Toxic and Bioaccumulative tPtB = Very persistent and very bioaccumulative bw = Body mass
16.2	Key literature references and sources for data	Regulation (EC) 1907/2006 of the European Parliament (REACH) Regulation (EC) 1272/2008 of the European Parliament (CLP) Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP) Regulation (EC) 453/2010 of the European Parliament Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP) The Merck index. Ed. 10 Handling and chemical safety Niosh - Register of toxic effects of chemical substances INRS - Toxicological Data Sheet Patty - Industrial hygiene and toxicology N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989 ECHA website EU REACH IUCLID5 CSR. National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances. IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.Règlement (CE) n ° 1272/2008 Annexe VI.
16.3	Indication of changes:	Revision date: 21/02/2020 Previous version date: 25/06/2018 Version number : 3 Modification : Modification section 5.3
16.4	Classification and procedure used to derive the classification for mixtures according to	Non Applicable

	Regulation (EC) 1272/2008 [CLP]:	
	Note	<p>The indicated mixture does not require SDS according to REACH requirements. Data sheet provided for information purposes only.</p> <p>This safety data sheet complies with the requirements established by Regulation 830/2015/EU. It does not in any way exempt the user from knowing and applying all the documents that govern his activity. The user will take under his responsibility the precautions related to the specific use of the product. All the regulatory requirements mentioned are intended simply to assist the recipient in fulfilling their responsibilities. This list should not be considered exhaustive. This sheet supplements the technical operating instructions but does not replace them. This safety data sheet has been prepared by Terra Aquatica on the basis of its current knowledge (manufacturer's active ingredient safety data sheet and other bibliographic data).</p> <p>The information contained herein is based on our knowledge of the product on the date indicated. They are given in good faith. In addition, 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 addressee must ensure that he is not responsible for anything else according to texts other than those mentioned.</p> <p>The information describes the safety aspects of the product. They are not intended to guarantee specific properties.</p> <p>It is the responsibility of our customers to comply with the regulations in force.</p>