


According to Regulation (EC) NO 1907/2006 (REACH)

Productname: DuplaMarin Power Calcium 400 g / 800 g / 10 Kg

Item No.: 81371 / 81372 / 81373

Supplier: Dohse Aquaristik GmbH & Co. KG, Otto Hahn Str. 9, D-53501 Grafenschaft Gelsdorf Telefon: +49(0)2225-94150

Created: 22.07.19 / Revision Date: 16. November 2021 / Version-No.: 2 / Replaced Version: 1 / Print Date: 09.02.2022

1	Identification of the substance/mixture and of the company/undertaking	
1.1	Product identifier	
	Trade name:	Power Calcium 400 g / 800 g / 10 Kg
	Item No.:	81371 / 81372 / 81373
1.2	Relevant identified uses of the substance or mixture and uses advised against relevant identified uses	
	Product for seawater aquaristics	
1.3	Details of the supplier of the safety data sheet	
	Manufacturer/Supplier:	Dohse Aquaristik GmbH & Co. KG Otto Hahn Str. 9 D-53501 Grafenschaft Gelsdorf
	Phone:	+49(0)2225-94150
	Fax:	+49(0)02225-946494
	eMail:	info@dohse-aquaristik.de
1.4	Emergency Telephone Number Supplier:	+49 (0) 2225 94 15 0
	Reachability:	Mo.-TH. 7:30-16:30 - Fr. 7:30-13:00
1.5	Emergency telephone number (24h):	Poison Centre Berlin - Emergency call of the Charité D-13437 Berlin Phone: +49 30 30686 700
2	Hazards identification	
2.1	Classification of the substance or mixture	
	Eye irritation, category 2; H319	
2.2	Label elements	
	Labeling according to Regulation (EC) No 1272/2008	
	Hazardous components for labeling:	Calcium chloride
	Hazard pictogram:	 GHS07
	Signal word:	Warning
	Hazard statements:	
	H319:	Causes serious eye irritation
	Safety instructions:	
	P261:	Avoid breathing dust
	P264:	Wash hands thoroughly after handling
	P280:	Wear protective gloves / protective clothing / eye protection / face protection
	P305+P351+P338:	If swallowed, in contact with skin, if inhaled, if in contact with eyes: gently wash / rinse with water for several minutes. Remove any contact lenses and continue rinsing.
	P337+P313:	If eye irritation persists: Get medical advice / attention
2.3	Other hazards	
	No information available	






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3 Composition/ information on ingredients											
3.1	Substances										
	The Product is a mixture										
3.2.	Mixture										
	The product is composed of different salts										
	Hazardous ingredients according to Regulation (EC) No. 1272/2008 [CLP]:										
	<table border="1"> <thead> <tr> <th>Designation:</th> <th>CAS-No.:</th> <th>EG-No.:</th> <th>Registration number:</th> <th>Proportion:</th> </tr> </thead> <tbody> <tr> <td>Calcium chloride</td> <td>10043-52-4</td> <td>233-140-8</td> <td>01-2119494219-28-0000</td> <td>>10- <46%</td> </tr> </tbody> </table>	Designation:	CAS-No.:	EG-No.:	Registration number:	Proportion:	Calcium chloride	10043-52-4	233-140-8	01-2119494219-28-0000	>10- <46%
Designation:	CAS-No.:	EG-No.:	Registration number:	Proportion:							
Calcium chloride	10043-52-4	233-140-8	01-2119494219-28-0000	>10- <46%							
	Classification according to Regulation (EC) No. 1272/2008:										
	Eye Irrit. 2, H319										
	Hazard pictogram:										
	 GHS07 Warning										
	Substance with a Community workplace exposure limit:										
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Manganese chloride	64333-01-3	215-540-4	Registration number not available	< 0.2%							
	Classification according to Regulation (EC) No. 1272/2008:										
	Acute toxicity (oral) 3; H301										
	serious eye damage / eye irritation 1; H318										
	STOT RE 2, Specific Target Organ Toxicity (repeated exposure), H373										
	Hazard pictogram:										
	   GHS06 GHS08 GHS05 Danger										
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Barium chloride	10361-37-2	233-788-1	Registration number not available	< 0.2%							
	Classification according to Regulation (EC) No. 1272/2008:										
	Toxic, Acute Toxicity Category 3; H301										
	Harmful, Acute toxicity. Category 4, H332										
	Hazard pictogram:										
	 GHS06 Danger										
	For the wording of the listed risk phrases refer to section 16.										

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4	First aid measures	
4.1	Description of first aid measures	
	General information:	If symptoms persist, consult a doctor
	Following inhalation:	Fresh air
	Following skin contact:	If touched with skin, rinse with water
	Following eye contact:	In case of contact with eyes, rinse thoroughly with plenty of water
	Following ingestion:	Rinse mouth, drink plenty of water
4.2	Most important symptoms and effects, both acute and delayed	
	Local irritation symptoms; Stomach / intestinal disorder	
4.3	Indication of any immediate medical attention and special treatment needed	
	Treatment:	Treat symptomatically
5	Firefighting measures	
5.1	Extinguishing media	
	Suitable extinguishing media:	Adapt the extinguishing measures to the surroundings
	Unsuitable extinguishing media:	Full jet of water
5.2	Special hazards arising from the substance or mixture	
	Hazardous decomposition products in case of fire: hydrogen chloride (HCl), chlorine (Cl ₂), carbon monoxide, carbon dioxide	
5.3	Advice for fire-fighters	
	As with any fire wear respirator and protective gear	
6	Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures	
	Wear personal protective gear	
6.2	Environmental precautions	
	Do not allow large quantities into drains or water courses	
6.3	Methods and material for containment and cleaning up	
	Mechanically recover the product, rinse remaining contamination with water and dilute this water extremely.	
6.4	Reference to other sections	
	Concerning personal protective equipment to use, see section 8	
7	Handling and storage	
7.1	Precautions for safe handling	
	Avoid eye contact, avoid dust formation, do not breathe dust.	
	No special measures necessary if used correctly.	
	The usual precautionary measures are to be adhered to when handling chemicals	
	Measures taken as a protection from the dangers of fire and explosions	
	The mixture is not flammable.	
	The usual precautionary measures of fire protection must be considered.	
	Hygiene measures:	
	Keep away from food, drink and animal feed.	
	Do not eat, drink or smoke at work.	
	Remove dirty clothes.	
	More information	
	none	

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7.2	Conditions for safe storage, including any incompatibilities	
	Requirements for storage facilities and containers	
	Store container sealed and protected from light, product is hygroscopic	
	Hints for combined storage	
	Do not store with strong acids, oxidizing agents and reducing agents	
	Further information on storage conditions	
	Keep container closed and dry	
	Storage stability information	
	Original sealed and with proper storage everlasting	
	Specific end uses	
	When dissolved in water, the product provides all the calcium-forming organisms with the necessary mineral calcium. Promotes the stone coral growth.	
8	Exposure controls/personal protection	
8.1	Control parameters	
	Substances with limit values for occupational exposure (occupational exposure limit values)	
	not applicable	
	General occupational exposure limit values (TRGS 900)	
	General dust limit value, alveolar fraction 1.25 mg / m ³ A	
	General dust limit value, inhalable fraction 10 mg / m ³ E	
	Manganese chloride:	CAS No.: 64333-01-3 EC No.: 231-869-6
	TRGS 900, AGW, long-term value:	0.2 mg / m ³ (DE)
	TRGS 900, AGW, short-term value:	1.6 mg / m ³ (DE)
	Note:	inhalable fraction
	TRGS 900, AGW, long-term value:	0.02 mg / m ³ (DE)
	TRGS 900, AGW, short-term value:	0.16 mg / m ³ (DE)
	TRGS 900, IOELV, long-term value:	0.05 mg / m ³ (EU)
	Note:	respirable fraction
	Barium chloride:	CAS No.: 10361-37-2 EC No.: 233-788-1
	TRGS 900, AGW, long-term value:	0.5 mg / m ³ (DE)
	TRGS 900, AGW, short-term value:	0.5 mg / m ³ (DE)
	TRGS 900, IOELV, long-term value:	0.5 mg / m ³ (EU)
	Relevant DNELs	
	Calcium chloride:	CAS No.: 10035-04-8 EC No.: 233-140-8
	DNEL	
	Worker, long term - local effects, inhalation:	10 mg / m ³
	DNEL	
	Worker, acute - local effects, inhalation:	5 mg / m ³
	DNEL	
	Consumers, long-term local effects, inhalation:	2.5 mg / m ³
	DNEL	
	Consumers, acute - local effects, inhalation:	5 mg / m ³
	Manganese chloride:	CAS-No.: 64333-01-3 EC-No.: 231-869-6
	DNEL	
	Workers, chronic systemic effects, inhalation:	0.2 mg / m ³
	Worker, chronic systemic effects, dermal:	0.004 mg / kg

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	Barium chloride:	CAS No.: 10361-37-2	EC No.: 233-788-1
	DNEL		
	Worker, chronic systemic effects, inhalation:	8.8 mg / m ³	
	Worker, chronic systemic effects, dermal:	43.2 mg / kg	
	Relevant PNEC values		
	Manganese chloride:	CAS-No.: 64333-01-3	EC-No.: 231-869-6
	PNEC 0.025 mg / l fresh water (once)		
	PNEC 0 mg / l / sea water (once)		
	PNEC 20.4 mg / l sewage treatment plant (once)		
	PNEC 0.011 mg / kg freshwater sediment (once)		
	PNEC 0.001 mg / kg marine sediment (single)		
	PNEC 14.8 mg / kg soil (once)		
	Barium chloride:	CAS No.: 10361-37-2	EC No.: 233-788-1
	PNEC 174 mg / l / aquatic organisms / freshwater (once)		
	PNEC 94.3 mg / l / aquatic organisms / sewage treatment plant (once)		
	PNEC 908 mg / kg / aquatic organisms / freshwater sediment (once)		
	PNEC 314.9 mg / kg terrestrial organisms / soil (once)		
8.2	Limitation and monitoring of exposure		
	Appropriate engineering controls		
	good ventilation, dust should be extracted at the point of origin		
	Personal protective equipment		
	Respiratory protection		
	Not required for room ventilation		
	In case of dust formation, use respiratory protection P2 (according to EN 141)		
	Eye protection		
	Do not allow product to get in eyes, wear protective goggles (According to EN 166)		
	Body protection:		
	In the event of prolonged direct exposure, wear gloves that are resistant to the product. (According to EN 374)		
	Suitable material:		
	FKM (fluor rubber). - Glove thickness:	0.4 mm	
	Breakthrough time:	> = 8 h	
	Butyl rubber. - Glove thickness:	0.5 mm	
	Breakthrough time:	> = 8 h	
	CR (polychloroprene, chloroprene rubber) - glove thickness:	0.5 mm	
	Breakthrough time:	> = 8 h	
	NBR (nitrile rubber). - Glove thickness:	0.35 mm	
	Breakthrough time:	> = 8 h	
	PVC (polyvinyl chloride). - Glove thickness:	0.5 mm	
	Breakthrough time:	> = 8 h	
	Environmental exposure controls		
	No information available		

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9	Physical and chemical properties	
9.1	Information on basic physical and chemical properties	
	Appearance:	solid (powder / crystalline)
	Color:	white to grayish
	Odor:	characteristic
	Odor threshold:	no information available
	pH:	7-11 (100g/l, 20°C CaCl ₂)
	Boiling point/Boiling range:	>1600 °C (CaCl ₂)
	Melting point/freezing point:	176°C bei 1.013 hPa (Release of crystal water)
	Flame point:	not applicable
	Evaporation rate:	no information available
	Ignition temperature:	none
	Spontaneous combustion:	not self-igniting
	Vapor pressure:	no information available
	Vapor density:	no information available
	Density:	2.15 g/cm ³ (25°C CaCl ₂)
	solubility in water:	soluble
	Partition coefficient	
	Octanol / water:	not applicable
	Viscosity:	not determined
	decomposition temperature:	165°C/ 97,3 kPa
	explosive properties:	not explosive
	oxidizing characteristics:	not determined
10	Stability and reactivity	
10.1	Reactivity	
	No further dangers known when used as intended	
	When reacting with strong oxidizing agents, chlorine gas can be formed	
	Reaction with strong acids can produce hydrogen chloride	
10.2	Chemical stability	
	Stable under normal conditions	
10.3	Possibility of hazardous reactions	
	Thermal decomposition > 165°C	
	Exothermic reaction	
10.4	Conditions to avoid	
	Avoid dust formation	
10.5	Incompatible materials	
	Corrosive to metals	
	With strong acids:	hydrogen chloride (HCl)
	With oxidizing agents:	chlorine gas (Cl ₂),
	Decomposition catalysts (most metals and their salts), alkalis, Acids, reducing agents.	
10.6	Hazardous decomposition products	
	Hydrogen chlorine (HCl), chlorine (Cl ₂), sulfur oxides, carbon oxides, Oxygen (O ₂)	
	General information	
	When dissolving in water always add product to water, never vice versa	

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11		Toxicological information			
11.1		Information on toxicological effects			
There are no toxicological findings for this mixture					
Acute toxicity					
Designation:		CAS-No.:	EG-No.:	Registration number:	
Calcium chloride		10043-52-4	233-140-8	01-2119494219-28-0000	
LD50 (oral):		>3000 mg/kg (Ratte)			
Dermal LD50:		2630 mg/kg (Ratte)			
Designation:		CAS-No.:	EG-No.:	Registration number:	
Manganese chloride:		64333-01-3	231-869-6	Not available	
LD50 (oral):		250 mg/kg			
Designation:		CAS-No.:	EG-No.:	Registration number:	
Barium chloride		10361-37-2	233-788-1	Not available	
LD50 (oral):		118 mg/kg (rat)			
Irritation					
To the skin:		light irritation possible			
On the eye:		irritation possible			
Etching effect:		No information available			
Sensitization:		No information available			
Specific target organ toxicity after single exposure:		No information available			
Specific target organ toxicity (repeated exposure):		No information available			
Carcinogenicity:		No information available			
Germ cell mutagenicity:		No information available			
Reproductive toxicity:		No information available			
Aspiration hazard:		No information available			
General comments:		The available data are not sufficient for a complete industrial toxicological assessment. The usual precautionary measures when handling chemicals must be observed.			
Other indications:		In conjunction with moisture, the irritant effect is enhanced. If swallowed, irritation of the internal organs. Irritating to the nasopharynx during prolonged exposure.			
12		Ecological information			
12.1		Toxicity			
Toxicology of dangerous raw material					
Designation:		CAS-No.:	EG-No.:	Registration number:	
Calcium chloride		10043-52-4	233-140-8	01-2119494219-28-0000	
LC50/48h:		2400 mg/l (daphnia magna)			
EC50/96h:		4630 mg/l (Pimephales promales)			
EC50/72h:		2900 mg/l (Alge)			
Designation:		CAS-No.:	EG-No.:	Registration number:	
Manganese chloride:		64333-01-3	231-869-6	Not available	
EC50:		72h 61 mg / l (algae)			
EC50:		3h> 1000 mg 3h> 1000 mg / l (microorganisms)			

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	Designation:	CAS-No.:	EG-No.:	Registration number:
	Barium chloride	10361-37-2	233-788-1	Not available
	LC50:	96h 3.5 mg / l (fish)		
	EC50:	3h> 1000 mg / l (microorganisms)		
12.2	Persistence and degradability			
	Inorganic product; WGK 1; cannot be eliminated from the water by biological cleaning processes			
12.3	Bioaccumulative potential			
	No information available			
12.4	Mobility in soil			
	No information available			
12.5	Results of PBT and vPvB assessment			
	No information available			
12.6	Endocrine disrupting properties			
	No information available			
12.7	Other adverse effects			
	No information available			
	General information			
	If used correctly, no ecological problems are to be expected.			
	Behavior in sewage processing plants			
	With the appropriate introduction of low concentrations into adapted biological waste water treatment plants, no inhibition of the degradation activity of the activated sludge is to be anticipated.			
13	Disposal considerations			
13.1	Waste treatment methods			
	Treatment of polluted packages			
	The packages should be cleaned with a lot of water, after that they can be disposed in the common way.			
	The appropriate disposal of the products			
	Disposal must be made according to official regulations.			
	Recommended cleaning agent			
	None			
14	Transport information			
14.1	UN number			
	Not applicable			
14.2	UN proper shipping name			
	Not applicable			
14.3	Transport hazard class			
	Not applicable			
14.4	Packing group			
	Not applicable			
14.5	Environmental hazards			
	Not applicable			
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			
	Comment			

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	No dangerous goods in the sense of the regulation	
	Additional information about the transport	
	Land transport (ADR/RID/GGVS/GGVE)	
15	Regulatory information	
15.1	Safety, health and environmental regulations/ legislation specific for the substance or mixture	
	EU regulations	
	Restrictions according to REACH, Annex XVII	
	Raw materials with restrictions (REACH, Annex XVII)	
	Components not listed.	
	List of substances subject to authorization (REACH, Annex XIV) / SVHC candidate list	
	Concentration of manganese chloride in the mixture: <0.1% mass concentration	
	Seveso directive	
	Listed components	
	Manganese chloride	
	2012/18 / EU (Seveso III)	
	No. H2	
	Hazard category:	acutely toxic (Cat2 + Cat 3, inhaled)
	Quantity threshold (in tons) for use in lower-class establishments:	50
	Quantity threshold (in tons) for use in upper-class establishments:	200
	Note 41)	
	- Hazard Category 2, all routes of exposure	
	- Hazard category 3, inhalation route of exposure	
	Information on IE Directive 2010/75 / EU (VOC):	
	No information available	
	Information on the VOC directive 2004/42 / EC:	
	No information available	
	Regulation 166/2006 / EC on the creation of a European Pollutant Release-and Transfer Register (PRTR)	
	Components not listed.	
	Directive 2000/60 / EC establishing a framework for Community action in the field of water policy (WFD)	
	Listed components:	
	Barium chloride:	Metals and metal compounds listed in A
	A) Non-exhaustive list of the most important pollutants	
	Regulation 98/2013 / EU on the marketing and use of precursors for explosives	
	Components not listed.	
	Regulation 1005/2009 / EC on substances that deplete the ozone layer (ODS)	
	Components not listed.	
	Regulation 649/2012 / EU on the export and import of dangerous chemicals (PIC)	
	Components not listed.	
	National regulations (Germany)	
	Ordinance on systems for handling substances hazardous to water (AwSV)	
	Water hazard class (WGK):	1
	Classification of mixtures according to Appendix 1, No. 5 AwSV	
	Employment restriction:	
	Observe employment restrictions for young people (Section 22 JArbSchG).	
	Technical Instructions Air I:	

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	5.2.1: Total dust, including fine dust at $m > 0.2 \text{ kg / h}$: Conc. 20 mg / m^3 or at $\leq 0.2 \text{ kg / h}$: conc. 0.15 g / m^3
	Storage of hazardous substances in portable containers (TRGS 510) (Germany)
	Storage class (LGK): 13
15.2	Chemical safety assessment
	No chemical safety assessment was carried out for this mixture.
	Other regulations, restrictions, and prohibition regulations
	No information available
16	Other information
	Indication of Changes
	Revision Section 1/3/7/8/9/11/12/15/16
	Hazard statements related to section 2 and 3 in accordance with the regulation (EG)Nr.:1272/2008:
	Eye irritation, Category 2; H319- Causes serious eye irritation
	Acute toxicity. Category 3; H301-Toxic if swallowed
	Acute toxicity. 4; H302- Harmful if swallowed
	Acute toxicity. 4; H332- Harmful by inhalation
	Serious eye damage / eye irritation 1; H318- causes serious eye damage
	STOT RE 2, specific target organ toxicity (repeated exposure), H373- may cause damage to organs (brain) through prolonged or repeated exposure (if inhaled)
	Recommended uses and restrictions
	Preparation (concentrate) dissolved in water provides all calcium-forming organisms with the necessary mineral calcium.
	Literature references and sources for data
	Safety data sheets for raw materials REACH Regulation 1907/2006/EC CLP Regulation (EC) No 1272/2008
	Abbreviations and acronyms
	ADN- Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement on the International Carriage of Dangerous Goods on inland waterways)
	ADR- Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
	CAS- Chemical Abstracts Service (database of chemical compounds and them unique key, the CAS Registry Number)
	CLP Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures
	DGR- Dangerous Goods Regulations (Dangerous Goods Regulations) Regulations for the transport of dangerous goods, see IATA / DGR
	DNEL- Derived No-Effect Level (derived exposure level without impairment)
	EC50- Effective Concentration 50% (Effective Concentration 50%). The EC50 corresponds to the concentration of a tested substance that changes an effect (e.g., on growth) by 50% in each period
	EC No. - The EC directory (EINECS, ELINCS and the NLP directory) is the source for the seven-digit EC number as an identification number for substances in the EU (European Union)
	EINECS- European Inventory of Existing Commercial Chemical Substances
	ErC50- \equiv EC50: in this method that concentration of the test substance which, compared to the control, leads to a 50% decrease in either the growth (EbC50) or the growth rate (ErC50)
	GHS- "Globally Harmonized System of Classification and Labelling of Chemicals" "Globally harmonized system for the classification and labelling of chemicals" developed by the United Nations
	LC50- Lethal Concentration 50%: LC50 is the concentration of a tested substance which leads to a

According to Regulation (EC) NO 1907/2006 (REACH)

Productname: DuplaMarin Power Calcium 400 g / 800 g / 10 Kg

Item No.: 81371 / 81372 / 81373

Supplier: Dohse Aquaristik GmbH & Co. KG, Otto Hahn Str. 9, D-53501 Grafenschaft Gelsdorf Telefon: +49(0)2225-94150

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	lethality of 50% in each period
	LD50 Lethal Dose 50% (Lethal Dose 50%): LD50 is the dose of a tested substance which leads to a lethality of 50% in each period
	LGK storage class according to TRGS 510, Germany
	PBT- Persistent, Bioaccumulate and Toxic
	PNEC- Predicted No-Effect Concentration (estimated no-effect concentration)
	REACH- Registration, Evaluation, Authorization and Restriction of Chemicals (Registration, evaluation, authorization, and restriction of chemical substances)
	RID- Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations for the international carriage of dangerous goods by rail)
	STOT RE- Specific Target Organ Toxicity (repeated exposure)
	TRGS- Technical Rules for Hazardous Substances (Germany)
	VOC- volatile organic compounds (volatile organic compounds)
	vPvB- very Persistent and very Bioaccumulate (very persistent and very bioaccumulate)
	WGK- water hazard class
	Additional information
	<p>The information is based on the current state of our knowledge. However, they do not constitute an assurance of product properties and do not establish a legal relationship.</p> <p>The user of this product is obliged to hand over to all persons, who encounter the product, the information necessary for occupational safety, environmental and health protection in the form of this safety information sheet.</p>

End of Document