

Calcium Formulation

Version 7.0	Revision Date: 28.09.2024		Number: 780-00012	Date of last issue: 06.04.2024 Date of first issue: 07.01.2021
SECTIO	N 1: Identification of	the su	ıbstance/mix	ture and of the company/undertaking
1.1 Produ	uct identifier			
Trade	e name	: C	alcium Formul	ation
1.2 Relev	ant identified uses of	the sub	stance or mix	cture and uses advised against
	of the Sub- ce/Mixture	: V	eterinary prod	uct
Reco on us	ommended restrictions se	: N	lot applicable	
1.3 Detail	s of the supplier of the	e safety	/ data sheet	
Com	pany	2	ISD 0 Spartan Roa 619 Spartan, 3	
Telep	phone	: +	27119239300	
	ail address of person onsible for the SDS	: E	HSDATASTE\	VARD@msd.com
	gency telephone numl 08-423-6000	ber		
SECTIO	N 2: Hazards identifi	cation		
2.1 Class	ification of the substa	nce or	mixture	
	sification (REGULATIO			8)
Skin corrosion, Sub-category 1BH314: Causes severe skin burns aSerious eye damage, Category 1H318: Causes serious eye damage			Causes severe skin burns and eye damage. Causes serious eye damage. FD: May damage fertility. May damage the	
2.2 Label	elements			
ا ما			4070/0000	

Labelling (REGULATION (EC) No 1272/2008)



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Suppl Stater	emental Hazard nents	:	EUH071	Corrosive to the respiratory tract.
Precautionary statements		:		special instructions before use. protective gloves/ protective clothing/ eye protec- ection.
			mouth. Do NO CENTER/ doct P303 + P361 + immediately al shower. Immed P305 + P351 + with water for s sent and easy POISON CEN	 P353 + P310 IF ON SKIN (or hair): Take off I contaminated clothing. Rinse skin with water or diately call a POISON CENTER/ doctor. P338 + P310 IF IN EYES: Rinse cautiously several minutes. Remove contact lenses, if pre- to do. Continue rinsing. Immediately call a

Hazardous components which must be listed on the label:

Boric acid

Sodium hydroxide

Additional Labelling

Restricted to professional users.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative tive and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Boric acid	10043-35-3 233-139-2 005-007-00-2	Repr. 1B; H360FD	>= 1 - < 10
Sodium hydroxide	1310-73-2 215-185-5 011-002-00-6	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 2 - < 3
Calcium phosphinate	7789-79-9 232-190-8	Flam. Sol. 2; H228 Acute Tox. 4; H302	>= 1 - < 10



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For ex	xplanation of abbrevia	tions see section 16	i.	
SECTION	4: First aid meas	ures		
4.1 Descri	iption of first aid me	asures		
Gene	ral advice	vice immedia	ately.	unwell, seek medical ad- ses of doubt seek medical
Prote	ction of first-aiders	and use the		ention to self-protection, I protective equipment sts (see section 8).
lf inha	aled	If not breathi If breathing is	move to fresh air. ng, give artificial respira s difficult, give oxygen. attention immediately.	ation.
In cas	se of skin contact	for at least 1 and shoes. Get medical Wash clothin		h skin with plenty of water ng contaminated clothing Se.
In cas	se of eye contact	for at least 1 If easy to do,		h eyes with plenty of water if worn.
lf swa	allowed	If vomiting or Call a physic Rinse mouth	DO NOT induce vomit ccurs have person lean ian or poison control ce thoroughly with water. nything by mouth to an	forward. entre immediately.
4 2 Most i	mportant symptoms	and effects both a	acute and delayed	
Risks		: Causes seric May damage Causes seve	ous eye damage. e fertility. May damage t	the unborn child.
		Causes dige	stive tract burns.	

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Treat symptomatically and supportively.
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SECTION	N 5: Firefighting meas	sur	es	
5.1 Exting	guishing media			
Suita	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
5.2 Specia	al hazards arising from	the	substance or mi	xture
Spec fightir	ific hazards during fire- ng	:	Exposure to com	pustion products may be a hazard to health.
Haza ucts	rdous combustion prod-	:	Carbon oxides Metal oxides Chlorine compour Boron oxides Oxides of phosph	
5.3 Advic	e for firefighters			
Spec	ial protective equipment refighters	:		e, wear self-contained breathing apparatus. tective equipment.
Spec ods	ific extinguishing meth-	:	cumstances and to Use water spray to	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.



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		ment to keep n be pumped, sto Clean up rema bent. Local or nation posal of this ma employed in th mine which reg Sections 13 an	, provide dyking or other appropriate contain- naterial from spreading. If dyked material can bre recovered material in appropriate container. ining materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- gulations are applicable. d 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

1.1 Frecautions for sale nanuling	
Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	 Do not get on skin or clothing. Do not breathe vapours or spray mist. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the
Hygiene measures	 environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
7.2 Conditions for safe storage, in	cluding any incompatibilities
Requirements for storage areas and containers	: Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Advice on common storage	: Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

7.1 Precautions for safe handling



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7.3 Specific end use(s)

Specific use(s)

: No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis			
		of exposure)					
Sodium hydroxide	1310-73-2	OEL- RL STEL/C	4 mg/m3	ZA OEL			
	Further information: Occupational Exposure Limits - Restricted Limits For						
	Hazardous Chemical Agents						

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health ef-	Value
		Expectite realed	fects	Value
Boric acid	Workers	Skin contact	Long-term systemic effects	392 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	8,3 mg/m3
	Consumers	Ingestion	Acute systemic ef- fects	0,98 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,98 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,15 mg/m3
	Consumers	Skin contact	Long-term systemic effects	196 mg/kg bw/day
Sodium hydroxide	Consumers	Inhalation	Long-term local ef- fects	1 mg/m3
	Workers	Inhalation	Long-term local ef- fects	1 mg/m3
Calcium phosphinate	Workers	Inhalation	Long-term systemic effects	0,821 mg/m3
	Workers	Skin contact	Long-term systemic effects	1,173 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,205 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,587 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,058 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	0,352 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Boric acid	Fresh water	2,9 mg/l
	Intermittent use/release	13,7 mg/l



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	Marine water	2,9 mg/l
	Sewage treatment plant	10 mg/l
	Soil	5,7 mg/kg dry weight (d.w.)
Calcium phosphinate	Fresh water	0,418 mg/l
	Freshwater - intermittent	1 mg/l
	Marine water	0,042 mg/l
	Marine water - intermittent	0,1 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0,757 mg/kg dry weight (d.w.)
	Marine sediment	0,0757 mg/kg dry weight (d.w.)
	Soil	0,1 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.

Personal protective equipment

Eye/face protection Hand protection		Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection	:	Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	liquid Colorless to pale yellow odourless No data available
рН	:	5,0 - 7,0
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available



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	Flash p	point	:	No data available	e
	Evapor	ration rate	:	No data available	e
	Flamm	ability (solid, gas)	:	Not applicable	
		explosion limit / Upper ability limit	:	No data available	e
		explosion limit / Lower ability limit	:	No data available	e
	Vapou	r pressure	:	No data available	e
	Relativ	e vapour density	:	No data available	e
	Relativ	e density	:	No data available	e
	Density	/	:	1,150 - 1,350 g/c	cm ³
	Partitio octano	ter solubility n coefficient: n-	:	No data available Not applicable No data available	
	-	position temperature		No data available	
	Viscos		:	No data available	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2		nformation ability (liquids)	:	No data available	e
	Molecu	ılar weight	:	No data available	e
	Particle	e size	:	Not applicable	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions

: Can react with strong oxidizing agents.



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	itions to avoid tions to avoid	:	None known.	
	npatible materials ials to avoid	:	Oxidizing agents	
	rdous decomposition p			
SECTION	11: Toxicological in	for	mation	
	nation on toxicologica nation on likely routes of sure			
	e toxicity assified based on availa	ble	information.	
<u>Produ</u> Acute	uct: oral toxicity	:	Acute toxicity estir Method: Calculation	mate: > 2.000 mg/kg on method
<u>Comp</u>	oonents:			
Boric	acid:			
Acute	oral toxicity	:	LD50 (Rat): 3.450	mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 2,03 Exposure time: 4 I Test atmosphere: Method: OECD Te Assessment: The tion toxicity	h dust/mist
Acute	dermal toxicity	:	LD50 (Rabbit): > 2 Assessment: The toxicity	2.000 mg/kg substance or mixture has no acute dermal
Sodiu	ım hydroxide:			
	inhalation toxicity	:	Assessment: Corr	osive to the respiratory tract.
Calci	um phosphinate:			
Acute	oral toxicity	:	LD50 (Rat): 2.000 Method: OECD Te	
Acute	inhalation toxicity	:	LC50 (Rat): > 3,3 Exposure time: 4 I	



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				: dust/mist est Guideline 403 on data from similar materials
Acute	e dermal toxicity	:		00 mg/kg est Guideline 402 on data from similar materials
	corrosion/irritation			
<u>Com</u>	ponents:			
Borio	c acid:			
Spec Resu		:	Rabbit No skin irritation	
Sodi	um hydroxide:			
Resu	•	:	Corrosive after 3	minutes or less of exposure
Calci	ium phosphinate:			
Spec	ies	:	Rabbit	
Meth Resu		:	OECD Test Guide No skin irritation	eline 404
Caus	ous eye damage/eye i ses serious eye damag <u>ponents:</u>		on	
Borio	c acid:			
Spec Resu		:	Rabbit No eye irritation	
Sodi	um hydroxide:			
Resu Rema		:	Irreversible effect Based on skin co	
Resp	biratory or skin sensi	tisatio	n	
	sensitisation	ailable	information.	
-	Diratory sensitisation classified based on avai		information.	
<u>Com</u>	ponents:			
Borio	c acid:			
	Type sure routes ies	:	Buehler Test Skin contact Guinea pig	



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Metho Result		:	OECD Test Guide	eline 406
Test T	sure routes	:	Human repeat ins Skin contact negative	sult patch test (HRIPT)
Test T	sure routes es od t		Maximisation Tes Skin contact Guinea pig OECD Test Guide negative Based on data fro	
Not cla <u>Comp</u>	cell mutagenicity assified based on avail ponents:	able	information.	
Boric Genot	acid: coxicity in vitro	:	Result: negative	rial reverse mutation assay (AMES) o mammalian cell gene mutation test
			Test Type: Chrom Result: negative	nosome aberration test in vitro
Genot	oxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Result: negative	
II Calciu	um phosphinate:			
	oxicity in vitro	:	Test Type: Bacter Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471
			Method: OECD T Result: negative	nosome aberration test in vitro est Guideline 473 on data from similar materials
Genot	oxicity in vivo	:	Test Type: Mamn cytogenetic assay Species: Mouse Application Route Method: OECD T	: Ingestion



ersion 0	Revision Date: 28.09.2024		OS Number: 25780-00012	Date of last issue: 06.04.2024 Date of first issue: 07.01.2021
			Result: negative Remarks: Based	on data from similar materials
	nogenicity lassified based on avail	able	information.	
Com	oonents:			
Boric	acid:			
	cation Route sure time	: : :	Mouse Ingestion 103 weeks negative	
May o	oductive toxicity damage fertility. May da	amag	e the unborn child	
	oonents:			
	e acid: ts on fertility	:	Test Type: Three Species: Rat Application Route Result: positive	e-generation reproduction toxicity study e: Ingestion
Effect ment	ts on foetal develop-	:	Test Type: Embr Species: Rabbit Application Route Result: positive	yo-foetal development e: Ingestion
Repro sessn	oductive toxicity - As- nent	:	ity, based on anii	f adverse effects on sexual function and fertil- nal experiments., Clear evidence of adverse pment, based on animal experiments.
Calci	um phosphinate:			
	ts on fertility	:	test Species: Rat Application Route Method: OECD T Result: negative	oduction/Developmental toxicity screening e: Ingestion Test Guideline 421 on data from similar materials
Effect ment	ts on foetal develop-	:	test Species: Rat Application Route Method: OECD T Result: negative	oduction/Developmental toxicity screening e: Ingestion Test Guideline 421 on data from similar materials

STOT - single exposure

Corrosive to the respiratory tract.



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Not c	- repeated exposure lassified based on avail	able	information.	
Calci	oonents: um phosphinate: ssment	:	No significant heations of 100 mg/k	alth effects observed in animals at concentra- g bw or less.
-	ated dose toxicity ponents:			
Speci NOAE LOAE Applic	ΞL	:	Rat 100 mg/kg 334 mg/kg Ingestion 2 yr	
Speci NOAI Applio	EL cation Route sure time od	:	Rat > 300 mg/kg Ingestion 54 Days OECD Test Guid Based on data fro	eline 422 om similar materials

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Boric acid:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 74 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 102 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 52,4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 17,5 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



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Toxicit	Toxicity to microorganisms		EC10 : 35,4 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
Toxicit <u>y</u> icity)	y to fish (Chronic tox-	:	NOEC: 6,4 mg/l Exposure time: 34 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210		
	y to daphnia and other invertebrates (Chron- ity)		NOEC: 10,8 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)		
Calciu	m phosphinate:				
	Toxicity to fish		LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials		
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
Toxicit <u>;</u> plants	Toxicity to algae/aquatic plants		mg/l Exposure time: 72 Method: OECD To		
			mg/l Exposure time: 72 Method: OECD Te		
Toxicit	y to microorganisms	:	 EC10 (activated sludge): > 1 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials 		
aquatio	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC: 32 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211		
	tence and degradabil	ity			

No data available

12.3 Bioaccumulative potential

Components:

Boric acid:



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Bioaccumulation		Biocond	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): <= 3,2 Method: OECD Test Guideline 305			
Partition coefficient: n-		: log Pow	log Pow: -1,09			
12.4 Mobi	lity in soil					
No da	ata available					
12.5 Resu	lts of PBT and vPvB a	ssessment				
Produ	uct:					
Assessment		to be ei very pe	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
12.6 Othe	r adverse effects					
Produ	uct:					
Endoo tial	crine disrupting poten-	ered to REACH (EU) 20	stance/mixture does not contain components consid- nave endocrine disrupting properties according to Article 57(f) or Commission Delegated regulation 17/2100 or Commission Regulation (EU) 2018/605 at 0.1% or higher.			

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	 Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good

14.2 UN proper shipping name



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ADN		: Not regulated as a dangerous good
ADR		: Not regulated as a dangerous good
RID		: Not regulated as a dangerous good
IMDO	2	: Not regulated as a dangerous good
IATA	-	: Not regulated as a dangerous good
	sport hazard class(e	
ADN		: Not regulated as a dangerous good
ADR		: Not regulated as a dangerous good
RID		: Not regulated as a dangerous good
IMDO	-	: Not regulated as a dangerous good
		: Not regulated as a dangerous good
14.4 Pack	ing group	
ADN		: Not regulated as a dangerous good
ADR		: Not regulated as a dangerous good
RID		: Not regulated as a dangerous good
IMDO	6	: Not regulated as a dangerous good
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good
-	ronmental hazards	a good
	egulated as a dangero	-
•	ial precautions for upplicable	er
14.7 Tran	sport in bulk accord	g to Annex II of Marpol and the IBC Code
Rema	arks	: Not applicable for product as supplied.

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

DSL	:	not determined
AICS	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information



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Othe	Other information		Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.			
Full	text of H-Statements					
H228	H228		Flammable solid.			
H290	H290		May be corrosive to metals.			
H302	H302		Harmful if swallowed.			
H314	H314		Causes severe skin burns and eye damage.			
H318	H318		Causes serious eye damage.			
H360	H360FD :		May damage fertility. May damage the unborn child.			
Full	text of other abbreviati	ions				
Acute Tox. : Acute toxicity		Acute toxicity				
Eye	Eye Dam. : Serious eye damage		ge			
Flam. Sol. : Flammable solids		-				
Met.	Corr.	:	: Corrosive to metals			
Repi	ſ.	:	: Reproductive toxicity			
	Corr.	:	Skin corrosion			
ZAC	DEL	:		Regulations for Hazardous Chemical onal Exposure Limits		
ZAC	DEL / OEL- RL STEL/C	:	Occupational Exp	osure Limit Restricted limit - Short term oc- re limits / ceiling limits		
	ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by					

Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN



Calcium Formulation

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	ed Nations; UNRTDO s; vPvB - Very Persist		Recommendations on the Transport of Dangerous ccumulative
Furth	er information		
			hnical data, data from raw material SDSs, OECD tal search results and European Chemicals Agen- ha.europa.eu/
Class	sification of the mixt	ure:	Classification procedure:
Skin (Corr. 1B	H314	Calculation method
Eye D	Dam. 1	H318	Calculation method
Repr.	1B	H360FD	Calculation method

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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