

Alendronate / Vitamin D Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 13.09.2019
2.3	23.03.2020	2365675-00007	Date of first issue: 10.01.2018

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

1.1 Product identifier Trade name	:	Alendronate / Vitamin D Formulation
1.2 Relevant identified uses of t	he s	ubstance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Pharmaceutical
1.3 Details of the supplier of the	e saf	ety data sheet
Company	:	Organon & Co. 30 Hudson Street, 33nd floor 07302 Jersey City, New Jersey, U.S.A
Telephone	:	551-430-6000
E-mail address of person	:	EHSSTEWARD@organon.com

1.4 Emergency telephone number

responsible for the SDS

215-631-6999

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification T.R. SEA No 28848

Acute toxicity, Category 4 Skin irritation, Category 2 Serious eye damage, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - single exposure, Category 3 Specific target organ toxicity - repeated exposure, Category 2

2.2 Label elements

Labelling T.R. SEA No 28848

Hazard pictograms

H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H361d: Suspected of damaging the unborn child.
H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.



Signal word

Hazard statements

: Danger

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H302 Harmful if swallowed.H315 Causes skin irritation.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



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		H335 May caus H361d Suspected	erious eye damage. e respiratory irritation. d of damaging the unborn child. e damage to organs through prolonged or e.
Preca	utionary statements	P260 Do not bro	ecial instructions before use. eathe dust. rective gloves/ protective clothing/ eye protec- on.
		Response: P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre- sent and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. P308 + P313 IF exposed or concerned: Get medical advice/ attention.	

Hazardous components which must be listed on the label: Alendronate

2.3 Other hazards

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration num- ber	Classification	Concentration (% w/w)
Alendronate	121268-17-5	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 Repr.2; H361d STOT SE3; H335 STOT RE2; H373	>= 20 - < 30
Colecalciferol	67-97-0 200-673-2 603-180-00-4	Acute Tox.2; H300 Acute Tox.2; H330 Acute Tox.2; H310 STOT RE1; H372 Aquatic Chronic4;	>= 0,025 - < 0,1

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



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Eor	explanation of abbrevia	tions so	e section 16	H413				
	For explanation of abbreviations see section 16. SECTION 4: First aid measures							
	cription of first aid mea	euroe						
	neral advice	: I \ \	vice immediately	cident or if you feel unwo persist or in all cases o				
Pro	tection of first-aiders	á	and use the reco	lers should pay attentior mmended personal prot al for exposure exists (s	ective equipment			
lf in	haled		f inhaled, remov Get medical atte					
In c	ase of skin contact	f 2 (\	or at least 15 mi and shoes. Get medical atte Wash clothing be					
In c	ase of eye contact	f I	or at least 15 mi f easy to do, ren	ct, immediately flush eye nutes. nove contact lens, if wor ntion immediately.				
lf sv	vallowed	(F	Get medical atte Rinse mouth tho	NOT induce vomiting. ntion. roughly with water. ing by mouth to an unco	onscious person.			
4.2 Mos	t important symptoms	and eff	ects, both acut	e and delayed				
Risl	ks	() () [] [] [] []		ation. eye damage.				
4.3 Indio	cation of any immediat	e medio	cal attention an	d special treatment ne	eded			
	atment			tically and supportively.				

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



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SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Phosphorus compounds Metal oxides
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protec Personal precautions	tive :	e equipment and emergency procedures Use personal protective equipment. Follow safe handling advice and personal protective equip- ment recommendations.
6.2 Environmental precautions Environmental precautions	:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	: Static electricity may accumulate and ignite suspended dust causing an explosion.
	Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
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 dust.
	Do not swallow.
	Do not get in eyes.
	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment
	Keep container tightly closed.
	Already sensitised individuals should consult their physician
	regarding working with respiratory irritants or sensitisers.
	Minimize dust generation and accumulation.
	Keep container closed when not in use.
	Keep away from heat and sources of ignition.
	Take precautionary measures against static discharges.
	Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	: 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 contami-
	nated 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,
	appropriate degetting and decentarinitation procedules,



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			industrial hygiene use of administra	e monitoring, medical surveillance and the tive controls.
7.2 Condit	ions for safe storage,	inc	luding any incom	patibilities
Requirements for storage areas and containers		:	Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.	
Advice on common storage		:	Do not store with the following product types: Strong oxidizing agents	
•	c end use(s) ic use(s)	:	No data available	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Alendronate	121268-17- 5	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm ²	Internal
Colecalciferol	67-97-0	TWA	5 µg/m3 (OEB 4)	Internal
		Wipe limit	50 µg/100 cm²	Internal

8.2 Exposure controls

Engineering measures

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Personal protective equipment

•		
Eye 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.
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving.



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Skin and body protection		 Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing. 			
Respiratory protection		sure assessmer ommended guid Equipment shou	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to TS EN 143		
Fil	ter type	: Particulates type	e (P)		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	::	powder off-white odourless No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water	:	No data available Not applicable

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



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Auto-ignition temperature		: No data	available
Decor	mposition temperature	: No data	available
Viscosity Viscosity, kinematic		: Not appl	icable
Explosive properties		: Not expl	osive
Oxidizing properties		: The sub:	stance or mixture is not classified as oxidizing.
9.2 Other information Flammability (liquids) Particle size			available available

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

Н	lazardous reactions		May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
10.4 C	Conditions to avoid		
С	conditions to avoid		Heat, flames and sparks. Avoid dust formation.
10.5 lr	ncompatible materials		
Μ	laterials to avoid	:	Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

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Version 2.3	Revision Date: 23.03.2020		OS Number: 65675-00007	Date of last issue: 13.09.2019 Date of first issue: 10.01.2018
Acut	e toxicity			
Harm	nful if swallowed.			
Prod				motor 1 OGE malka
Acule	e oral toxicity		Method: Calculati	mate: 1.965 mg/kg on method
<u>Com</u>	ponents:			
Alen	dronate:			
Acute	e oral toxicity	:	LD50 (Rat): 552 -	626 mg/kg
			LD50 (Mouse): 96	66 - 1.280 mg/kg
Acute	e inhalation toxicity	:	Remarks: No data	a available
Acute	e dermal toxicity	:	Remarks: No data	a available
Cole	calciferol:			
Acute	e oral toxicity	:	LD50 (Rat, male)	: 35 mg/kg
Acute	e inhalation toxicity	:	Acute toxicity esti	
			Exposure time: 4 Test atmosphere:	
			Method: Expert ju	
Acute	e dermal toxicity	:	Acute toxicity esti Method: Expert ju	
Skin	corrosion/irritation			
Caus	es skin irritation.			
Com	ponents:			
Alen	dronate:			
Spec Rema		:	Rabbit Severe skin irritat	ion
Reine	ains	•	Severe skin inital	
Serio	ous eye damage/eye ir	ritati	on	
Caus	es serious eye damage			
<u>Com</u>	ponents:			
	dronate:			
Spec Resu		:	Rabbit Severe irritation	
Cole	calciferol:			
Spec	ies	:	Rabbit	
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Resu	ılt	: No eye irritation	
Resp	piratory or skin sensi	sation	
-	sensitisation	able information.	
-	biratory sensitisation classified based on ava	able information.	
<u>Com</u>	ponents:		
	dronate:	. No doto ovoilable	
Rem	arks	: No data available	
Test		 Maurer optimisation test Skin contact Guinea pig negative 	
Not o	n cell mutagenicity classified based on ava ponents:	able information.	
Alen	dronate:		
Geno	otoxicity in vitro	: Test Type: Alkaline elution assay Test system: rat hepatocytes Result: negative	
		Test Type: Bacterial reverse mutation assay (AMES) Metabolic activation: with and without metabolic activation Result: negative	
		Test Type: In vitro mammalian cell gene mutation test Result: negative	
		Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: equivocal	
Gend	otoxicity in vivo	: Test Type: Chromosomal aberration Species: Mouse Result: negative	
Cole	calciferol:		
Gend	otoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: equivocal	

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I".



sion	Revision Date: 23.03.2020	-	S Number: 65675-00007	Date of last issue: 13.09.2019 Date of first issue: 10.01.2018
				o mammalian cell gene mutation test est Guideline 476
				nosome aberration test in vitro Fest Guideline 473
Genotoxicity in vivo		:	cytogenetic assa Species: Rat Application Route	
			Test Type: In vive Species: Rat Application Route Result: positive	o mammalian alkaline comet assay e: Ingestion
Germ sessn	cell mutagenicity- As- nent	:	Weight of eviden cell mutagen.	ce does not support classification as a gern
	assified based on avail ponents:	able i	nformation.	
Alenc	Ironate:			
			Rat, male	
Speci				
Applic	es cation Route sure time		Oral 2 Years	
Applic	ation Route		Oral 2 Years 1 mg/kg body we	
Applic Expos	ation Route	:	Oral 2 Years	
Applic Expos	cation Route sure time t Organs	:	Oral 2 Years 1 mg/kg body we 3,75 mg/kg body Thyroid	
Applic Expose Targe Rema	cation Route sure time It Organs Irks Dductive toxicity		Oral 2 Years 1 mg/kg body we 3,75 mg/kg body Thyroid The mechanism mans.	weight
Applic Expose Targe Rema Repro	cation Route sure time t Organs ırks		Oral 2 Years 1 mg/kg body we 3,75 mg/kg body Thyroid The mechanism mans.	weight
Applic Expose Targe Rema Repro	cation Route sure time It Organs Irks oductive toxicity ected of damaging the u		Oral 2 Years 1 mg/kg body we 3,75 mg/kg body Thyroid The mechanism mans.	weight



Version 2.3	Revision Date: 23.03.2020	-	DS Number: 365675-00007	Date of last issue: 13.09.2019 Date of first issue: 10.01.2018	
Effects ment	Effects on foetal develop- ment		Symptoms: Redu weight, Skeletal n Result: Embryoto spring were detec Test Type: Develo Species: Rabbit, f Application Route	ale Oral xicity: LOAEL: 1 - 15 mg/kg body weight eed number of viable fetuses, Reduced body alformations tic effects and adverse effects on the off- ted. pment emale Oral xicity: NOAEL: 40 mg/kg body weight	
Reproc sessme	ductive toxicity - As- ent	:	Some evidence o animal experimer	f adverse effects on development, based on its.	
	- single exposure				
-	ause respiratory irritatio onents:	JH.			
	ronate:				
Assess		:	May cause respir	atory irritation.	
May ca	 repeated exposure ause damage to organs onents: 	s thr	ough prolonged or	repeated exposure.	
	r onate: Organs sment	:	Bone, Stomach, ł May cause dama exposure.	Kidney ge to organs through prolonged or repeated	
Exposu	alciferol: ure routes Organs sment	: :		one e significant health effects in animals at con- mg/kg bw or less.	
Repea	ted dose toxicity				
<u>Comp</u>	onents:				
Alendr	ronate:				
Specie NOAEI LOAEL	L	:	Rat 2,5 mg/kg > 2,5 mg/kg		

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Applic	cation Route	: Intravenous	
	sure time	53 Weeks	
Targe	et Organs	: Stomach	
Speci		: Dog	
LOAE		: 0,01 mg/kg	
	cation Route sure time	: Intravenous	
	et Organs	: 3 yr : Stomach, Bone	, Kidney
Speci		: Dog	
NOAE		: 2 mg/kg	
LOAE	cation Route	: 4 mg/kg : Oral	
	sure time	: 53 Weeks	
	et Organs	: Kidney	
Colec	calciferol:		
Speci	es	: Rat	
NOAE		: 0,06 mg/kg	
LOAE		: 0,3 mg/kg	
	cation Route sure time	: Ingestion : 90 Days	
Metho		: OECD Test Gui	ideline 408
Aspir	ation toxicity		
Not cl	assified based on ava	ailable information.	
<u>Comp</u>	oonents:		
Alenc	dronate:		
Not a	pplicable		
Expe	rience with human e	xposure	
Comp	oonents:		
Alenc	dronate:		
Inhala			piratory tract irritation
	contact		vere irritation, skin blistering
Eye c Inges	ontact	: Symptoms: Sev	/ere irritation strointestinal disturbance, musculoskeletal pa
inges		. Cymptonia. Gae	strontestinai distarbance, musculoskeletai pa
ECTION	12: Ecological in	ormation	

Components:

Alendronate:



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	Toxicity	v to fish	:	LC50 (Pimephales Exposure time: 96 Method: OECD Te	
				LC50 (Oncorhync Exposure time: 96 Method: FDA 4.11	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	v to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir Exposure time: 72 Method: OECD Te	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 1,1 mg/l Exposure time: 32 Species: Pimepha Method: OECD Te	iles promelas (fathead minnow)
				LOEC: 1,9 mg/l Exposure time: 32 Species: Pimepha Method: OECD Te	les promelas (fathead minnow)
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 4,7 mg/l Exposure time: 21 Species: Daphnia Method: OECD Te	magna (Water flea)
	Coleca	lciferol:			
	Toxicity		:	LL50 (Danio rerio Exposure time: 96 Method: OECD Te	
		v to daphnia and other invertebrates	:	EL50 (Daphnia ma Exposure time: 48 Method: OECD Te	
	Toxicity plants	v to algae/aquatic	:	EL50 (Scenedesm 100 mg/l Exposure time: 96 Method: OECD Te	

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12.2 Pers	istence and degrada	bility		
Com	ponents:			
Alen	dronate:			
Biode	egradability	:	Result: Readily Biodegradation Exposure time:	: 70,3 %
Stabi	lity in water	:		lf life (DT50): 375 d Test Guideline 111
Cole	calciferol:			
Biode	egradability	:	Biodegradation Exposure time:	
12.3 Bioa	ccumulative potentia	al		
Com	ponents:			
Alen	dronate:			
	ion coefficient: n- ol/water	:	log Pow: -1,73	
Cole	calciferol:			
	ion coefficient: n- ol/water	:	log Pow: > 6,2 Method: OECD	Test Guideline 107
	i lity in soil ata available			
			comont	
	<pre>ilts of PBT and vPvE elevant</pre>	asse:	551110111	
12.6 Othe	r adverse effects			
No de	ata available			

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 	i
Contaminated packaging	 discussion with the waste disposal authorities. Empty containers should be taken to an approved waste had dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	n-

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SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

KKDIK (30105 (Bis)) - Restrictions on the manufacture, : Not applicable placing on the market and use of certain dangerous substances, mixtures and articles (Annex 17) Regulation on Persistent Organic Pollutants (Number : Not applicable 30595) Regulation on prevention of major industrial accidents. Reg number 30702 Not applicable

Other regulations:

According to 13 December 2014, No:29204, "Ministry of Environment and Urbanization; Regulation on Safety data sheets regarding hazardous substances and mixtures; Part I". Regulation on Classification, Labelling and Packaging of Substances and Mixtures. Dated 11 December 2013, Numbered 28848 (Bis) Ministry of Environment and Forestry. Regulation on Health and Safety Measures Of Working with Chemicals Substances Dated 12.08.13, numbered 28733 Ministry of Labour and Social Security.

The components of this product are reported in the following inventories:

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

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SECTION	16: Other inform	ation		
Other	information	:		anges have been made to the previous version in the body of this document by two vertical
Full t	ext of H-Statements			
H300		:	Fatal if swallow	ved.
H302		:	Harmful if swal	lowed.
H310		:	Fatal in contac	t with skin.
H315		:	Causes skin irr	itation.
H318		:	Causes serious	s eye damage.
H330		:	Fatal if inhaled	
H335		:	May cause res	piratory irritation.
H361	d	:	Suspected of d	amaging the unborn child.
H372		:	Causes damage exposure.	e to organs through prolonged or repeated
H373		:		nage to organs through prolonged or repeated
H413		:		g lasting harmful effects to aquatic life.

The Turkish SDS has been prepared according to the Regulation on Safety Data Sheets for Hazardous Substances and Mixtures No. 29204.

Full text of other abbreviations

Acute Tox. :	Acute toxicity
Aquatic Chronic :	Long-term (chronic) aquatic hazard
Eye Dam. :	Serious eye damage
Repr. :	Reproductive toxicity
Skin Irrit. :	Skin irritation
STOT RE :	Specific target organ toxicity - repeated exposure
STOT SE :	Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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



Alendronate / Vitamin D Formulation

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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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data u compile the Safety Da Sheet	ata eChem Poi	hnical data, data from raw material SDSs, OECD rtal search results and European Chemicals Agen- cha.europa.eu/
Classification of the	mixture:	Classification procedure:
Acute Tox. 4	H302	Calculation method
Olding Jurvit O		Coloulation mathead

Eye Dam. 1 H318 Calcu	ulation method
Repr. 2 H361d Calcu	ulation method
STOT SE 3 H335 Calcu	ulation method
STOT RE 2 H373 Calcu	ulation method

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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