

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
4.1	28.09.2024	4259335-00016	Date of first issue: 06.05.2019

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

: EHSDATASTEWARD@msd.com

1.1 Product identifier Trade name	:	Multivitamin (with Soy Oil) Formulation
1.2 Relevant identified uses of t	the s	ubstance or mixture and uses advised against
Use of the Sub- stance/Mixture	:	Veterinary product
Recommended restrictions on use	:	Not applicable
1.3 Details of the supplier of the	e safe	ety data sheet
Company	:	MSD Kilsheelan Clonmel Tipperary, IE
Telephone	:	353-51-601000

#### 1.4 Emergency telephone number

E-mail address of person

responsible for the SDS

1-908-423-6000

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 1A Specific target organ toxicity - repeated exposure, Category 1 Long-term (chronic) aquatic hazard, Category 4 H360D: May damage the unborn child. H372: Causes damage to organs through prolonged or repeated exposure. H413: May cause long lasting harmful effects to aquatic life.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Commission Regulation (EU) 2020/878



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Hazar	d statements	: H360 H372 H413	<ul> <li>May damage the unborn child.</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> <li>May cause long lasting harmful effects to aquatic life.</li> </ul>
Preca	utionary statements	: <b>Preve</b> P201 P264 P270 P273 P280	<ul> <li>Obtain special instructions before use.</li> <li>Wash skin thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Avoid release to the environment.</li> <li>Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> </ul>
			onse: + P313 IF exposed or concerned: Get medical advice/ attention.

#### Hazardous components which must be listed on the label:

Vitamin A Palmitate

#### 2.3 Other hazards

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 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)
Soya oil	8001-22-7 232-274-4	Aquatic Chronic 4; H413	>= 70 - < 90
Vitamin A Palmitate	79-81-2 201-228-5	Repr. 1A; H360D STOT RE 1; H372 (Liver) Aquatic Chronic 4;	>= 20 - < 25

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(dl)-a	-Tocopheryl acetate	7695-91-2 231-710-0	H413	>= 1 - < 10
Colec	calciferol	67-97-0 200-673-2 603-180-00-4	Acute Tox. 2; H300Acute Tox. 2; H330Acute Tox. 2; H310STOT RE 1; H372(Kidney, Blood,Bone)Aquatic Chronic 4;H413specific concentrationlimitSTOT RE 1; H372>= 3 %STOT RE 2; H3730.3 - < 3 %	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.



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				Wash clothing be Thoroughly clean	fore reuse. shoes before reuse.
lı	n case	of eye contact	:		ater as a precaution. tion if irritation develops and persists.
lí	f swallo	owed	:	Get medical atten	NOT induce vomiting. tion. oughly with water.
4.2 M	lost im	portant symptoms a	nd e	effects. both acute	e and delaved
	Risks	, , . <b>,</b> . <b>,</b>	:	May damage the	-
	<b>idicatio</b> Treatm	•	meo		special treatment needed cally and supportively.
I	neatin	ent	•	rieat symptomati	
SEC	TION	5: Firefighting meas	sur	es	
5.1 Ex	xtingu	ishing media			
	-	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Jnsuita nedia	ble extinguishing	:	None known.	
5.2 Sı	pecial	hazards arising from	the	e substance or mi	xture
S	-	hazards during fire-	:		pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides	
53A	dvice f	for firefighters			
S		protective equipment	:		e, wear self-contained breathing apparatus. tective equipment.
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray t	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



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#### **SECTION 6: Accidental release measures**

#### 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.
		Provent correcting over a wide area (e.g. by containment or oil

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 oi	il
	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. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent.
	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### 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		Engineering measures under EXPOSURE ITROLS/PERSONAL PROTECTION section.
Local/Total ventilation		ficient ventilation is unavailable, use with local exhaust lation.
Advice on safe handling	Do n Do n Avoi Was Hand prac sess	ot get on skin or clothing. ot breathe mist or vapours. ot swallow. d contact with eyes. h skin thoroughly after handling. dle in accordance with good industrial hygiene and safety tice, based on the results of the workplace exposure as- ment o container tightly closed.



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Hygier	ne measures	Tak envi : If ex flusl plac	<ul> <li>Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.</li> <li>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.</li> </ul>				
7.2 Conditions for safe storage, including any incompatibilities							
Requirements for storage areas and containers		tigh	Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.				
Advice	e on common storage	Stro Self Org Exp	Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases				
-	<b>c end use(s)</b> ic use(s)	: No d	lata 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
Vitamin A Palmi- tate	79-81-2	TWA	>= 1 < 10 ug/m3 (OEB 4)	Internal
(dl)-a-Tocopheryl acetate	7695-91-2	TWA	5000 ug/m3 (OEB 1)	Internal
Colecalciferol	67-97-0	TWA	5 µg/m3 (OEB 4)	Internal
		Wipe limit	50 µg/100 cm <sup>2</sup>	Internal

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

Substance name	End Use		Potential health ef-	Value
Substance name	End Ose	Exposure routes	fects	value
Vitamin A Palmitate	Workers	Inhalation	Long-term systemic effects	1.6 mg/m3
(dl)-a-Tocopheryl acetate	Workers	Inhalation	Long-term systemic effects	73.5 mg/m3
	Workers	Skin contact	Long-term systemic effects	416.6 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	21.7 mg/m3
	Consumers	Skin contact	Long-term systemic effects	250 mg/kg bw/day



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		Consume	ſS	Ingestion	Long-term systemic 12.5 mg effects bw/day	/kg	
Predi	icted No Effect Co	oncentratio	on (PN	IEC) accord	ing to Regulation (EC) No. 1907/2006		
Subs	tance name		Envi	ronmental C	ompartment Value		
Vitam	nin A Palmitate		Fres	h water	0.1 mg/l		
			Mari	ne water	0.01 mg/l		
				mittent use/i	elease 1 mg/l		
				age treatme			
				h water sedi	°		
				ne sediment			
			Soil		2100000 mg	g/kg	
(dl)-a	-Tocopheryl aceta	te	Fres	h water	0.27 mg/l		
			Fres	hwater - inte	rmittent 0.27 mg/l		
			Mari	ne water	0.027 mg/l		
			Sew	age treatme	nt plant 100 mg/l		
			Fres	h water sedi	5		
					dry weight (		
				ne sediment	21200 mg/k		
					weight (d.w		
			Soil		74800 mg/k		
					weight (d.w	.)	

#### 8.2 Exposure controls

#### Engineering measures

Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation.

Personal protective equipment								
Eye/face protection :	Wear the following personal protective equipment: Safety glasses Equipment should conform to I.S. EN 166							
Hand protection								
Material :	Chemical-resistant gloves							
Remarks :	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.							
Skin and body protection :	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective							
Respiratory protection :	clothing (gloves, aprons, boots, etc). If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.							



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Fi	lter type	Equipment sho : Organic vapour	uld conform to I.S. EN 14387 type (A)

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

cal an	d chemical properties Aqueous solution
:	yellow
:	characteristic
:	No data available
:	-5 °C
g :	194 °C
:	Not applicable
:	Not applicable
r :	No data available
er :	No data available
:	244 °C
:	No data available
:	No data available
:	No data available
:	68.41 - 68.81 mPa.s (25 °C) Method: Brookfield
:	No data available
:	practically insoluble
S :	Solvent: Ethanol slightly soluble
	: g : r : r : i : : : : : :



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	Partition coefficient: n- octanol/water		:	Not applicable				
	Vapour pressure		:	: No data available				
	Relativ	ve density	:	0.9 - 0.94				
	Density		:	: No data available				
	Relative vapour density		:	No data availabl	e			
	Particle characteristics Particle size		:	Not applicable				
9.2	Other i	nformation						
	Explosives		:	Not explosive				
	Oxidizing properties		:	The substance c	r mixture is not classified as oxidizing.			
	Evapo	ration rate	:	No data availabl	e			
	Molecu	ular weight	:	No data availabl	e			

#### **SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b> Not classified as a reactivity hazard	I.					
<b>10.2 Chemical stability</b> Stable under normal conditions.						
10.3 Possibility of hazardous reaction	าร					
Hazardous reactions :	Can react with strong oxidizing agents.					
<b>10.4 Conditions to avoid</b> Conditions to avoid :	None known.					
<b>10.5 Incompatible materials</b> Materials to avoid       : Oxidizing agents						
<b>10.6 Hazardous decomposition products</b> No hazardous decomposition products are known.						

#### **SECTION 11: Toxicological information**

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

Information on likely routes of	:	Inhalation
exposure		Skin contact

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			Ingestion Eye contact	
Acute	toxicity			
Not cla	ssified based on ava	ilable ir	nformation.	
<u>Produc</u>	<u>ct:</u>			
Acute of	oral toxicity		Acute toxicity e Method: Calcu	estimate: > 2,000 mg/kg lation method
Acute i	nhalation toxicity	-	Acute toxicity e Exposure time Test atmosphe Method: Calcu	ere: dust/mist
Acute o	dermal toxicity		Acute toxicity e Method: Calcu	estimate: > 2,000 mg/kg lation method
Compo	onents:			
	n A Palmitate:			
Acute of	oral toxicity		LD50 (Rat): > Remarks: Base	5,000 mg/kg ed on data from similar materials
• •	Tocopheryl acetate			
Acute of	oral toxicity	:	LD50 (Rat): >	5,000 mg/kg
Acute o	dermal toxicity		LD50 (Rat): > Assessment: T toxicity	3,000 mg/kg The substance or mixture has no acute derma
Coleca	alciferol:			
Acute of	oral toxicity	:	LD50 (Rat, ma	le): 35 mg/kg
Acute i	nhalation toxicity	 -	Acute toxicity e Exposure time Test atmosphe Method: Exper	ere: dust/mist
Acute of	dermal toxicity		Acute toxicity e Method: Exper	estimate: 50 mg/kg t judgement
	orrosion/irritation	ilable ir	nformation.	
_	onents:			
	n A Palmitate:			
Specie Methoo Result	s d	: (	Rabbit OECD Test Gu Mild skin irritat	



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#### (dl)-a-Tocopheryl acetate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

#### Serious eye damage/eye irritation

Not classified based on available information.

#### **Components:**

#### Vitamin A Palmitate:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation

#### (dl)-a-Tocopheryl acetate:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	No eye irritation

#### **Colecalciferol:**

Species	:	Rabbit
Result	:	No eye irritation

#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### Components:

#### Vitamin A Palmitate:

Test Type	Maximisation Test
Exposure routes	Skin contact
Species	Guinea pig
Method	OECD Test Guideline 406
Result	negative

#### (dl)-a-Tocopheryl acetate:

: Draize Test
: Skin contact
: Humans
: negative

#### **Colecalciferol:**

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Test <sup>-</sup> Expos Speci Resu	sure routes es	: Maurer optimi : Skin contact : Guinea pig : negative	sation test
	a <b>cell mutagenicity</b> lassified based on ava	ailable information.	
Com	oonents:		
Vitam	nin A Palmitate:		
Geno	toxicity in vitro	: Test Type: Ba Result: negati	cterial reverse mutation assay (AMES) ve
Geno	toxicity in vivo	cytogenetic as Species: Mou Application Ro	se oute: Ingestion D Test Guideline 474
(dl)-a	-Tocopheryl acetate	:	
Geno	toxicity in vitro		romosome aberration test in vitro D Test Guideline 473 ve
			cterial reverse mutation assay (AMES) D Test Guideline 471 ve
Geno	toxicity in vivo	cytogenetic as Species: Mou	se function
Coled	calciferol:		
	toxicity in vitro		cterial reverse mutation assay (AMES) D Test Guideline 471 ocal
			vitro mammalian cell gene mutation test D Test Guideline 476 ve
			romosome aberration test in vitro D Test Guideline 473 ve
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as	ammalian erythrocyte micronucleus test (in vivo ssay)

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			Species: Rat Application Route Method: OECD To Result: negative	
			Test Type: In vivo Species: Rat Application Route Result: positive	e mammalian alkaline comet assay : Ingestion
	m cell mutagenicity- As- sment	:	Weight of evidend cell mutagen.	e does not support classification as a germ
	<b>cinogenicity</b> classified based on availa	able	information.	
<u>Con</u>	nponents:			
(dl)-	a-Tocopheryl acetate:			
	cies	:	Rat	
	lication Route osure time	÷	Ingestion 104 weeks	
Res		:	negative	
-	productive toxicity v damage the unborn child	d.		
-	nponents:			
Vita	min A Palmitate:			
Effe	cts on foetal develop-	:		ro-foetal development
mer	nt		Species: Monkey Application Route	· Indestion
			Result: positive	
•	roductive toxicity - As- sment	:	Positive evidence human epidemiol	of adverse effects on development from ogical studies.
(dl)-	a-Tocopheryl acetate:			
	cts on fertility	:	Test Type: Repro test Species: Rat Application Route Result: negative	duction/Developmental toxicity screening
Effe mer	cts on foetal develop- nt	:	Test Type: Embry Species: Rabbit Application Route Result: negative	ro-foetal development : Ingestion

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#### STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

#### Components:

Vitamin A Palmitate: Exposure routes Target Organs Assessment Remarks	Ingestion Liver Causes damage to organs through prolonged or repeated exposure. Based on data from similar materials	
<b>Colecalciferol:</b> Exposure routes Target Organs Assessment	Ingestion Kidney, Blood, Bone Shown to produce significant health effects in animals at con- centrations of 10 mg/kg bw or less.	
Repeated dose toxicity		
Components:		
<b>Soya oil:</b> Species NOAEL Application Route Exposure time	Rat 4,000 mg/kg Ingestion 90 h	
Vitamin A Palmitate:		
Species LOAEL Application Route Exposure time Remarks	Rat > 1 - 10 mg/kg Ingestion 3 Months Based on data from similar materials	
<b>(dl)-a-Tocopheryl acetate:</b> Species NOAEL Application Route Exposure time	Rat 500 mg/kg Ingestion 90 Days	
<b>Colecalciferol:</b> Species NOAEL LOAEL Application Route Exposure time	Rat 0.06 mg/kg 0.3 mg/kg Ingestion 90 Days	
	Ju Days	

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Meth	od	: OECD Test (	Guideline 408
-	ration toxicity lassified based on ava	ilable information.	
11.2 Infor	mation on other haza	rds	
Endo	ocrine disrupting pro	perties	
<u>Prod</u> Asse	<u>uct:</u> ssment	ered to have REACH Artic	ce/mixture does not contain components consid- endocrine disrupting properties according to cle 57(f) or Commission Delegated regulation 100 or Commission Regulation (EU) 2018/605 at % or higher.
Expe	rience with human e	posure	
Com	ponents:		
Vitan Inges	nin A Palmitate: stion	Remarks: Ba Symptoms: E	iver impairment ased on data from similar materials Embryo-foetal toxicity ased on data from similar materials
SECTION	N 12: Ecological inf	ormation	
12.1 Toxi	city		
Com	ponents:		
	nin A Palmitate: Sity to fish	: LC50 (Leucis Exposure tim Method: DIN	

Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 152.94 mg/l Exposure time: 72 h
(dl)-a-Tocopheryl acetate:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h

Remarks: Based on data from similar materials

Method: OECD Test Guideline 203



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	Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic plants		:	<ul> <li>EC50 (Daphnia magna (Water flea)): &gt; 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202</li> </ul>	
			:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir 100 mg/l Exposure time: 72 Method: OECD Te	
	Toxicity	to microorganisms	:	EC50 : > 927 mg/ Exposure time: 30 Method: ISO 8192	) min
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 100 mg/l Exposure time: 28 Species: Oncorhy	d nchus mykiss (rainbow trout)
	Coleca	lciferol:			
	Toxicity to fish		:	LL50 (Danio rerio Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EL50 (Daphnia ma Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EL50 (Scenedesn 100 mg/l Exposure time: 96 Method: OECD Te	
12.2	12.2 Persistence and degradabili		ity		
	Components:				
	Vitamiı	n A Palmitate:			
	Biodeg	radability	:	Result: Not readily Biodegradation: 2 Exposure time: 28 Method: OECD Te	10 - 50 <sup>5</sup> %
	<i>.</i>				

### (dl)-a-Tocopheryl acetate:

.,		
Biodegradability	:	Result: Not readily biodegradable.
		Biodegradation: 21.7 - 31 %
		Exposure time: 28 d
		Method: OECD Test Guideline 301C



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Cole	calciferol:		
Biode	egradability	Biodeg Exposu	Not readily biodegradable. radation: <= 7 % ure time: 28 d d: OECD Test Guideline 301C
12.3 Bioa	ccumulative potentia		
Com	ponents:		
Soya			
	ion coefficient: n- ol/water	: log Pov Remar	v: > 4 ks: Calculation
Vitan	nin A Palmitate:		
	ion coefficient: n- ol/water	: log Pov	v: > 6.2
	calciferol:		
	ion coefficient: n- ol/water	: log Pov Methoo	v: > 6.2 d: OECD Test Guideline 107
	i <b>lity in soil</b> ata available		
	Ilts of PBT and vPvB	assessment	
Prod	uct:		
	ssment	to be e very pe	bstance/mixture contains no components considered ither persistent, bioaccumulative and toxic (PBT), or ersistent and very bioaccumulative (vPvB) at levels of r higher.
12.6 Endo	ocrine disrupting pro	erties	
Prod	uct:		
Asse	ssment	ered to REACH (EU) 20	bstance/mixture does not contain components consid- have endocrine disrupting properties according to H Article 57(f) or Commission Delegated regulation 017/2100 or Commission Regulation (EU) 2018/605 at of 0.1% or higher.
	<b>r adverse effects</b> ata available		

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



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Product		<ul> <li>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.</li> <li>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.</li> </ul>	
Contaminated packaging			

#### **SECTION 14: Transport information**

#### 14.1 UN number or ID 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	2 UN proper shipping name		
	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
14.3	3 Transport hazard class(es)		
	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
14.4	Packing group		
	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
	IATA (Cargo)	:	Not regulated as a dangerous good
	IATA (Passenger)	:	Not regulated as a dangerous good



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#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

#### 14.7 Maritime transport in bulk according to IMO instruments

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

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Colecalciferol
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national



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regu	llations, where applicabl	e.				
The	The components of this product are reported in the following inventories:					
AIC	S	: not determined	b			
DSL		: not determined	b			
IEC	SC	: not determined	b			
A Chemi	15.2 Chemical safety assessment         A Chemical Safety Assessment has not been carried out.         SECTION 16: Other information					
Oth	er 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					
H30	0	: Fatal if swallow	ved.			
H31			Fatal in contact with skin.			
H33			Fatal if inhaled.			
H36			he unborn child.			
H37	2		ge to organs through prolonged or repeated			
H41			exposure. May cause long lasting harmful effects to aquatic life.			
Full	text of other abbreviat	tions				
	te Tox.	: Acute toxicity				
	atic Chronic		ronic) aquatic hazard			
Rep	r. DT RE	: Reproductive t	organ toxicity - repeated exposure			
510		. Opeonic larger	organ toxicity - repeated exposure			

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;



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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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

Classification of the m	ixture:	Classification procedure:
Repr. 1A	H360D	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Chronic 4	H413	Calculation 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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