

Version 1.7	Revision Date: 30.09.2023		S Number: 99055-00008	Date of last issue: 04.04.2023 Date of first issue: 15.10.2020	
SECTION	1. IDENTIFICATION				
Produ	Product name		Multivitamin (wit	h Sunflower Oil) Formulation	
Manu	afacturer or supplier's	s deta	ils		
Com	Company		MSD		
Addre	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP		
Telep	phone	:	908-740-4000		
Emer	gency telephone	:	1-908-423-6000		
E-ma	E-mail address		EHSDATASTEWARD@msd.com		
Reco	mmended use of the	chem	ical and restricti	ons on use	
	mmended use ictions on use	:	Veterinary produ Not applicable	uct	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Reproductive toxicity		Category 1A
Reproductive toxicity	·	
Specific target organ toxicity - repeated exposure	:	Category 2 (Liver)
Short-term (acute) aquatic hazard	:	Category 3
Long-term (chronic) aquatic hazard	:	Category 3
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H360D May damage the unborn child. H373 May cause damage to organs (Liver) through prolonged or repeated exposure. H412 Harmful to aquatic life with long lasting effects.
Precautionary Statements	:	Prevention:



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		P202 Do not h and understoo P260 Do not b P273 Avoid re	od. preathe mist or va lease to the envi otective gloves/ p	fety precautions have been read				
		Response: P308 + P313 IF exposed or concerned: Get medical adv attention.						
		Storage: P405 Store lo	Storage: P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.					
		P501 Dispose						
	er hazards which do e known.	not result in classifica	ation					
SECTION	I 3. COMPOSITION/II	NFORMATION ON ING	REDIENTS					
Subs	stance / Mixture	: Mixture						
Com	ponents							
Cher	nical name		CAS-No.	Concentration (% w/w)				

Chemical name	CAS-No.	Concentration (% w/w)
Sunflower oil	8001-21-6	>= 70 -< 90
Retinyl propionate	7069-42-3	>= 5 -< 10
(dl)-a-Tocopheryl acetate	7695-91-2	>= 1 -< 5
Benzyl alcohol	100-51-6	>= 1 -< 5
2,6-Di-tert-butyl-p-cresol	128-37-0	>= 0,25 -< 1
Colecalciferol	67-97-0	>= 0,025 -< 0,1

SECTION 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek medic advice immediately. When symptoms persist or in all cases of doubt seek m advice.	
If inhaled	If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	In case of contact, immediately flush skin with soap and of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.	I plenty
In case of eye contact	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.	
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention.	



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	and eff delaye Protect	nportant symptoms ects, both acute and d ion of first-aiders to physician	:	Rinse mouth thoroughly with water. May damage the unborn child. May cause damage to organs through prolonged or repeate exposure. 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). Treat symptomatically and supportively.		
SEC	TION 5	. FIRE-FIGHTING ME	ASL	IRES		
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical		
	Unsuita media	able extinguishing	:	None known.		
		c hazards during fire	: Exposure to combustion products may be a hazard		pustion products may be a hazard to health.	
		lous combustion prod-	:	Carbon oxides		
	Specifi ods	c extinguishing meth-	cumstances and the surrounding environment Use water spray to cool unopened containers. Remove undamaged containers from fire area so.		he surrounding environment. o cool unopened containers.	
		l protective equipment fighters	:	 Evacuate area. In the event of fire, wear self-contained breathing apparate Use personal protective equipment. 		
SEC	TION 6	. ACCIDENTAL RELE	AS	E MEASURES		
	tive eq	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).	

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.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

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



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		Sections 13 a	ich regulations are applicable. and 15 of this SDS provide information regarding or national requirements.
SECTION	7. HANDLING AND ST	ORAGE	
Tech	nical measures		ring measures under EXPOSURE PERSONAL PROTECTION section.
Loca	I/Total ventilation		entilation is unavailable, use with local exhaust
Advid	e on safe handling	: Do not get or Do not breath Do not swallo Avoid contac Wash skin the Handle in acc practice, base assessment Keep contain Do not eat, d	
Conc	litions for safe storage	: Keep in prop Store locked Keep tightly c	losed.
Mate	rials to avoid	: Do not store Strong oxidiz	substances and mixtures

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Sunflower oil	8001-21-6	CMP (Mist)	10 mg/m ³	AR OEL	
(dl)-a-Tocopheryl acetate	7695-91-2	TWA	5000 ug/m3 (OEB 1)	Internal	
2,6-Di-tert-butyl-p-cresol	128-37-0	CMP (Va- pour and aerosol, in- halable frac- tion)	2 mg/m ³	AR OEL	
	Further information: A4 - Not classifiable as a human carcinogen				
		TWA (Inhalable fraction and vapor)	2 mg/m ³	ACGIH	



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	Coleca	Colecalciferol		67-97-0	TWA Wipe limit	5 μg/m3 (OEB 4) 50 μg/100 cm²	Internal Internal
des prot Ess Use If ha cab pote		design and op protect produc Essentially no Use closed pro If handled in a cabinet, fume potential exists	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Essentially no open handling permitted. Use closed processing systems or containment technologies. If handled in a laboratory, use a properly designed biosafety cabinet, fume hood, or other containment device if the potential exists for aerosolization. If this potential does not exist, handle over lined trays or benchtops.				
	Persor	nal protective equipn	nent	t			
	Filte	atory protection er type protection	:	 If adequate local exhaust ventilation is not available exposure assessment demonstrates exposures outs recommended guidelines, use respiratory protection. Organic vapor Type 			tside the
		terial	: Chemical-resistant gloves				
	Remarks:Consider double gloving.Eye protection:Wear safety glasses with side shields or If the work environment or activity involv mists or aerosols, wear the appropriate or Wear a faceshield or other full face protection			ivity involves dusty co propriate goggles. face protection if the	ere is a		
	Skin ar	nd body protection	 aerosols. 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 potentia contaminated clothing. 			itlets,	
	Hygiene measures : If exposure to eye flushing s working place When using o Wash contam The effective engineering o appropriate d industrial hyg		chemical is likel ystems and safe o not eat, drink o nated clothing b operation of a fa ontrols, proper p gowning and de	efore re-use. cility should include r ersonal protective eq econtamination proce medical surveillance	he eview of juipment, dures,		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

:	liquid
:	transparent
	amber
:	No data available
	:



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	Odor Th	reshold	:	No data available	
	рН		:	No data available	
	Melting p	point/freezing point	:	No data available	
	Initial bo range	iling point and boiling	:	No data available	
	Flash po	pint	:	No data available	
	Evapora	tion rate	:	No data available	
	Flammal	bility (solid, gas)	:	Not applicable	
	Flammal	bility (liquids)	:	No data available	
	Upper ex flammab	xplosion limit / Upper ility limit	:	No data available	
	Lower ex flammab	xplosion limit / Lower ility limit	:	No data available	
	Vapor pr	ressure	:	No data available	
	Relative	vapor density	:	No data available	
	Relative	density	:	No data available	
	Density		:	0,925 g/cm ³	
	Solubility Wate	/(ies) r solubility	:	No data available	
		coefficient: n-	:	Not applicable	
	octanol/\ Autoigni	tion temperature	:	No data available	
	Decomp	osition temperature	:	No data available	
	Viscosity Visco	/ osity, kinematic	:	No data available	
	Explosiv	e properties	:	Not explosive	
	Oxidizin	g properties	:	The substance or	mixture is not classified as oxidizing.
	Molecula	ar weight	:	No data available	
	Particle	size	:	Not applicable	



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SECT	TION 10. STABILITY AND RE	EAC	TIVITY	
C F t C I	Reactivity Chemical stability Possibility of hazardous reac- ions Conditions to avoid ncompatible materials Hazardous decomposition products	:	Stable under norn Can react with str None known. Oxidizing agents	a reactivity hazard. nal conditions. ong oxidizing agents. composition products are known.
SECT	TION 11. TOXICOLOGICAL I	NF	ORMATION	
	nformation on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact	
	Acute toxicity Not classified based on availa	ble	information	
-	Product:	010		
ļ	Acute oral toxicity	:	Acute toxicity estin Method: Calculatio	nate: > 5.000 mg/kg n method
ļ	Acute inhalation toxicity	:	Acute toxicity estin Exposure time: 4 h Test atmosphere: Method: Calculatio	dust/mist
<u>(</u>	Components:			
5	Sunflower oil:			
ŀ	Acute oral toxicity	:	LD50 (Rat): > 2.00 Method: OECD Te Remarks: Based o	
F	Retinyl propionate:			
ŀ	Acute oral toxicity	:	LD50 (Rat): > 2.00 Assessment: The s icity	0 mg/kg substance or mixture has no acute oral tox-
(dl)-a-Tocopheryl acetate:			
	Acute oral toxicity	:	LD50 (Rat): > 5.00	0 mg/kg
ŀ	Acute dermal toxicity	:	LD50 (Rat): > 3.00 Assessment: The s toxicity	0 mg/kg substance or mixture has no acute dermal
E	Benzyl alcohol:			
	Acute oral toxicity	:	LD50 (Rat): 1.620	mg/kg

SAFETY DATA SHEET



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inhalation toxicity	Exposure tim Test atmosph	
-tert-butyl-p-cresol:		
oral toxicity		· 6.000 mg/kg D Test Guideline 401
dermal toxicity	Method: OEC	2.000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
alciferol:		
oral toxicity	: LD50 (Rat, m	ale): 35 mg/kg
inhalation toxicity	Exposure tim Test atmosph	nere: dust/mist
dermal toxicity		estimate: 50 mg/kg ert judgment
orrosion/irritation		
assified based on avai	lable information.	
onents:		
ower oil:		
	: Rabbit	
		a from similar materials
/l propionate:		
• •	: Rabbit	
d	: OECD Test G	
Tocopheryl acetate:		
	: Rabbit	
rl alcohol:		
	: Rabbit	
d		Guideline 404
	: No skin irritat	ion
	30.09.2023 inhalation toxicity -tert-butyl-p-cresol: oral toxicity dermal toxicity dermal toxicity inhalation toxicity dermal toxicity	30.09.2023 6599055-00008 inhalation toxicity : LC50 (Rat): > exposure tim Test atmosph method: OEC oral toxicity : LD50 (Rat): > oral toxicity : LD50 (Rat): > dermal toxicity : LD50 (Rat): > method: OEC Assessment: toxicity alciferol: : LD50 (Rat, m) oral toxicity : LD50 (Rat, m) inhalation toxicity : LD50 (Rat, m) inhalation toxicity : LD50 (Rat, m) inhalation toxicity : Acute toxicity dermal toxicity : Acute toxicity method: Expo : Method: Expo corrosion/irritation assified based on available information. onents: : No skin irritat ower oil: : : No skin irritat es : Rabbit OECD Test G id : : No skin irritat ress : Rabbit : id : OECD Test G



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2,6-D	i-tert-butyl-p-cresol:			
Spec	ies	: Rab	bit	
Meth		: OE(CD Test Gu	ideline 404
Resu	lt		skin irritatio	
Rema	arks	: Bas	ed on data	from similar materials
Serio	ous eye damage/eye	irritation		
Not c	lassified based on ava	ailable infor	mation.	
Com	ponents:			
Sunfl	lower oil:			
Spec		: Rab		
Resu			eye irritatior	
Rema	arks	: Bas	ed on data	from similar materials
Retin	yl propionate:			
Spec	ies	: Rab	bit	
Resu	lt		eye irritatior	
Metho	bd	: OE0	CD Test Gu	ideline 405
(dl)-a	-Tocopheryl acetate	:		
Spec	ies	: Rab	bit	
Resu		: No	eye irritatior	า
Metho	bd		CD Test Gu	
Benz	yl alcohol:			
Spec	-	: Rab	bit	
Resu				s, reversing within 21 days
Metho	bd		CD Test Gu	
2.6-D	i-tert-butyl-p-cresol:			
Spec		: Rab	bit	
Resu			eye irritatior	า
Meth			CD Test Gu	
Rema		: Bas	ed on data	from similar materials
Cole	calciferol:			
Spec		: Rab	bit	
Resu			eye irritatior	n
Resp	iratory or skin sensi	tization		
Skin	sensitization			
Not c	lassified based on ava	ailable infor	mation.	
Resp	iratory sensitization			

Not classified based on available information.



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Comp	onents:		
Sunfle	ower oil:		
Test T	vpe	: Maximization Test	
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result		: negative	
Rema	rks	: Based on data from	m similar materials
Reting	yl propionate:		
Test T	уре	: Maximization Test	
Route	s of exposure	: Skin contact	
Specie		: Guinea pig	
Metho		: OECD Test Guide	line 406
Result	t	: negative	
(dl)-a-	Tocopheryl acetate	:	
Test T		: Draize Test	
	s of exposure	: Skin contact	
Specie		: Humans	
Result	t	: negative	
Benzy	/l alcohol:		
Test T	уре	: Maximization Test	
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Metho		: OECD Test Guide	line 406
Result	t	: negative	
	-tert-butyl-p-cresol		
Test T			ult patch test (HRIPT)
	s of exposure	: Skin contact	
Specie		: Humans	
Result	t	: negative	
	alciferol:		
Test T		: Maurer optimisation	on test
	s of exposure	: Skin contact	
Specie		: Guinea pig	
Result	t	: negative	
	cell mutagenicity		
	assified based on av	ailable information.	
-	onents:		
	ower oil:		
Genot	oxicity in vitro		mammalian cell gene mutation test
		Method: OECD Te	st Guideline 4/6
		Result: negative	n data from similar materials
		Remains. Dased (



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Retin	yl propionate:		
	toxicity in vitro	Method: OEC Result: negation	acterial reverse mutation assay (AMES) CD Test Guideline 471 tive sed on data from similar materials
Genot	toxicity in vivo	cytogenetic a Species: Mou Application R Method: OEC	
(dl)-a·	-Tocopheryl acetate	:	
Genot	toxicity in vitro		hromosome aberration test in vitro CD Test Guideline 473 tive
			acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
Genot	toxicity in vivo	cytogenetic a Species: Mou	use Route: Ingestion
Benzy	yl alcohol:		
Genot	toxicity in vitro	: Test Type: B Result: negat	acterial reverse mutation assay (AMES) tive
Genot	toxicity in vivo	cytogenetic a Species: Mou	use Route: Intraperitoneal injection
2,6-Di	i-tert-butyl-p-cresol:		
Genot	toxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: In Result: nega	vitro mammalian cell gene mutation test tive
		Test Type: C Result: nega	hromosome aberration test in vitro tive
Genot	toxicity in vivo		lutagenicity (in vivo mammalian bone-marrow est, chromosomal analysis)



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			Species: Rat Application Rou Result: negative	
Coled	alciferol:			
Genotoxicity in vitro		:		erial reverse mutation assay (AMES) Test Guideline 471 al
				ro mammalian cell gene mutation test Test Guideline 476
				mosome aberration test in vitro Test Guideline 473
Geno	toxicity in vivo	:	cytogenetic assa Species: Rat Application Rou	te: Ingestion Test Guideline 474
			Test Type: In viv Species: Rat Application Rour Result: positive	vo mammalian alkaline comet assay te: Ingestion
	cell mutagenicity - ssment	:	Weight of evider cell mutagen.	nce does not support classification as a ger
	nogenicity assified based on ava	ilabla	information	
	onents:	liable		
	-Tocopheryl acetate:			
Speci		:	Rat	
Applio	ation Route	:	Ingestion	
Expos Resul	sure time t	:	104 weeks negative	
Benz	yl alcohol:			
Speci	es	:	Mouse	
	cation Route	:	Ingestion	
Expos	sure time	:	103 weeks OECD Test Gui	deline 451
Resul		:	negative	
11050				
	i-tert-butyl-p-cresol:			



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		ation Route ure time	:	Ingestion 22 Months negative	
	-	ductive toxicity amage the unborn child			
	Compo	onents:			
	-	I propionate:	:	Species: Monkey Application Route Result: positive	o-fetal development : Ingestion on data from similar materials
	Reproc sessme	ductive toxicity - As- ent	:	Positive evidence human epidemiol	of adverse effects on development from ogical studies.
	• •	Focopheryl acetate:			
	Effects	on fertility	:	Test Type: Repro test Species: Rat Application Route Result: negative	duction/Developmental toxicity screening : Ingestion
	Effects	on fetal development	:	Test Type: Embry Species: Rabbit Application Route Result: negative	o-fetal development : Ingestion
	Benzy	l alcohol:			
	Effects	on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials
	Effects	on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-fetal development : Ingestion
		tert-butyl-p-cresol: on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route	o-fetal development : Ingestion



sion	Revision Date: 30.09.2023	SDS Number: 6599055-00008	Date of last issue: 04.04.2023 Date of first issue: 15.10.2020
		Result: negative	e
sтот	-single exposure		
Not cl	assified based on av	ailable information.	
STOT	-repeated exposure	<u>م</u>	
	• •		onged or repeated exposure.
	oonents:		
	yl propionate:		
	es of exposure	: Ingestion	
	t Organs	: Liver	
	ssment	: Causes damag exposure.	e to organs through prolonged or repeated
Rema	irks		from similar materials
2,6-Di	i-tert-butyl-p-cresol	:	
Asses	ssment	: No significant h tions of 100 mg	ealth effects observed in animals at concent /kg bw or less.
Colec	calciferol:		
Route	es of exposure	: Ingestion	
	et Organs ssment		Bone ice significant health effects in animals at co 0 mg/kg bw or less.
Repe	ated dose toxicity		
Comp	oonents:		
Retin	yl propionate:		
Speci	es	: Rat	
LÖAE	E	: > 1 - 10 mg/kg	
		: Ingestion	
	cation Route		
Expos	sure time	: 3 Months	from similar matorials
	sure time	: 3 Months	from similar materials
Expos Rema	sure time arks -Tocopheryl acetate	: 3 Months : Based on data :	from similar materials
Expos Rema (dl)-a- Speci	sure time arks -Tocopheryl acetate es	: 3 Months : Based on data : : Rat	from similar materials
Expos Rema (dl)-a Speci NOAE	sure time urks -Tocopheryl acetat e es EL	: 3 Months : Based on data : : Rat : 500 mg/kg	from similar materials
Expos Rema (dl)-a Speci NOAE Applic	sure time arks -Tocopheryl acetate es	: 3 Months : Based on data : : Rat	from similar materials
Expos Rema (dl)-a Speci NOAE Applic Expos	sure time urks -Tocopheryl acetate es EL cation Route sure time	: 3 Months : Based on data : Rat : 500 mg/kg : Ingestion	from similar materials
Expos Rema (dl)-a Speci NOAE Applic Expos Benzy	sure time trks - Tocopheryl acetate es EL cation Route sure time yl alcohol:	: 3 Months : Based on data : Rat : 500 mg/kg : Ingestion : 90 Days	from similar materials
Expos Rema (dl)-a Speci NOAE Applic Expos	sure time arks -Tocopheryl acetate es EL cation Route sure time yl alcohol: es	: 3 Months : Based on data : Rat : 500 mg/kg : Ingestion	from similar materials
Expos Rema (dl)-a- Speci NOAE Applic Expos Speci NOAE Applic	sure time urks -Tocopheryl acetate es EL cation Route sure time yl alcohol: es EL cation Route	: 3 Months : Based on data : Rat : 500 mg/kg : Ingestion : 90 Days : Rat : 1,072 mg/l : inhalation (dust	
Expos Rema (dl)-a- Speci NOAE Applic Expos Speci NOAE Applic	sure time arks -Tocopheryl acetate es EL cation Route sure time yl alcohol: es EL cation Route sure time	: 3 Months : Based on data : Rat : 500 mg/kg : Ingestion : 90 Days : Rat : 1,072 mg/l	/mist/fume)



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2,6-D Speci	i-tert-butyl-p-cresol:		Rat	
NOA	ΞL	:	25 mg/kg	
	cation Route sure time	:	Ingestion 22 Months	
Слро		•		
Coleo	calciferol:			
Speci		:	Rat	
NOAE LOAE		÷	0,06 mg/kg 0,3 mg/kg	
	cation Route	:	Ingestion	
Expo: Metho	sure time od	:	90 Days OECD Test Guide	eline 408
Weak		•		
Aspir	ration toxicity			
Not c	lassified based on availa	ble	information.	
Expe	rience with human exp	osı	ıre	
<u>Com</u>	ponents:			
Retin	yl propionate:			
Inges		:	Symptoms: liver i	mpairment
Ū				on data from similar materials
			Symptoms: Embr Remarks: Based	yo-fetal toxicity. on data from similar materials
CTION	12. ECOLOGICAL INFO	ORI	MATION	
Ecoto	oxicity			
Com	ponents:			
Sunfl	lower oil:			
Toxic	ity to fish	:		idus (Golden orfe)): > 100 mg/l
			Exposure time: 48	
			Remarks: Based	on data from similar materials
		:		nagna (Water flea)): > 32 mg/l
aquat	tic invertebrates		Exposure time: 48 Method: Directive	8 h 9 67/548/EEC, Annex V, C.2.
				on data from similar materials
			No toxicity at the	limit of solubility.
Toxic	ity to microorganisms	:	EC10 (Pseudomo	onas putida): 883 mg/l
	· · · ·		Exposure time: 18	8 h
			Remarks: Based	on data from similar materials
Rotin	yl propionate:			
	iyi propionate.			

Toxicity to fish	: LL50 (Leuciscus idus (Golden orfe)): > 10.000 mg/l Exposure time: 96 h Mathed: DIN 28412
	Method: DIN 38412



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	Toxicity to microorganisms		:	EC50 (activated sludge): > 1.000 mg/l Exposure time: 180 min Method: OECD Test Guideline 209				
		Focopheryl acetate: / to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te				
		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te				
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te				
				NOEC (Pseudokir 100 mg/l Exposure time: 72 Method: OECD Te				
	Toxicity icity)	/ to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28	chus mykiss (rainbow trout)): 100 mg/l 3 d			
	Toxicity	/ to microorganisms	:	EC50: > 927 mg/l Exposure time: 30 Method: ISO 8192) min			
	Benzyl	alcohol:						
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l S h			
		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	agna (Water flea)): 230 mg/l 3 h est Guideline 202			
	Toxicity plants	/ to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To				
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te				
		/ to daphnia and other invertebrates (Chron- ity)		NOEC (Daphnia r Exposure time: 21 Method: OECD To				

2,6-Di-tert-butyl-p-cresol:



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Toxicity	Toxicity to fish		Exposure time: 96	(zebra fish)): > 0,57 mg/l 5 h 67/548/EEC, Annex V, C.1.
	/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity plants	/ to algae/aquatic	:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	or (Acute aquatic tox-	:	1	
icity) Toxicity icity)	/ to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 30 Method: OECD Te	
	/ to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0,316 mg/l d
M-Fact	or (Chronic aquatic	:	1	
toxicity) Toxicity) / to microorganisms	:	EC50: > 10.000 m Exposure time: 3 Method: OECD Te	ĥ
Coleca	llciferol:			
Toxicity	/ to fish	:	LL50 (Danio rerio Exposure time: 96 Method: OECD Te	(zebra fish)): > 100 mg/l 5 h est Guideline 203
	/ 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	
Persist	tence and degradabili	ity		
<u>Compo</u>	onents:			
-	l propionate: radability	:	Result: Not readily Biodegradation: 4	



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				Exposure time: 2 Method: OECD T	8 d est Guideline 301B
•		ocopheryl acetate: radability	:	Biodegradation: Exposure time: 2	21,7 - 31 %
E	Benzvl	alcohol:			
	-	radability	:	Result: Readily b Biodegradation: Exposure time: 1	92 - 96 %
2	2,6-Di-1	tert-butyl-p-cresol:			
E	Biodeg	radability	:	Biodegradation: Exposure time: 2	4,5 %
c	Coleca	lciferol:			
E	Biodeg	radability	:	Biodegradation: Exposure time: 2	<= 7 %
E	Bioacc	umulative potential			
<u>c</u>	Compo	onents:			
F	Partitio	l propionate: n coefficient: n- /water	:	log Pow: 9,12 Remarks: Calcula	ation
F	Renzvl	alcohol:			
F	Partitio	n coefficient: n- /water	:	log Pow: 1,05	
		tert-butyl-p-cresol:			
E	Bioaccu	umulation	:	Species: Cyprinu Bioconcentration	s carpio (Carp) factor (BCF): 330 - 1.800
		n coefficient: n- /water	:	log Pow: 5,1	
C	Coleca	lciferol:			
		n coefficient: n- /water	:	log Pow: > 6,2 Method: OECD T	est Guideline 107
		y in soil a available			



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Other	r adverse effects		
No da	ata available		
ECTION	13. DISPOSAL CONS	SIDERATIONS	
		SIDERATIONS	
	13. DISPOSAL CONS	SIDERATIONS	
Dispo		: Do not dispose	of waste into sewer.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

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

Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable
Control of precursors and essential chemicals for the preparation of drugs.	:	Not applicable

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

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

SECTION 16. OTHER INFORMATION

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Further information

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

Full text of other abbreviations

	USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
	8-hour, time-weighted average TLV (Threshold Limit Value)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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: Nch - Chilean Norm: NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals 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; WHMIS - Workplace Hazardous Materials Information System

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 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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