



Multivitamin (with Sunflower Oil) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
1.6	09/30/2023	6599057-00007	Date of first issue: 10/15/2020

SECTION 1. IDENTIFICATION

Product name	:	Multivitamin (with Sunflower Oil) Formulation			
Manufacturer or supplier's	deta	ails			
Company name of supplier	:	Merck & Co., Inc			
Address	:	126 E. Lincoln Avenue			
		Rahway, New Jersey U.S.A. 07065			
Telephone	:	908-740-4000			
Emergency telephone	:	1-908-423-6000			
E-mail address	:	EHSDATASTEWARD@merck.com			
Recommended use of the chemical and restrictions on use					
Recommended use	:	Veterinary product			
Restrictions on use	:	Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)			
Reproductive toxicity	:	Category 1A	
Specific target organ toxicity - repeated exposure	:	Category 1 (Liver)	
GHS label elements Hazard pictograms	:		
Signal Word	:	Danger	
Hazard Statements	:	H360D May damage the unborn child. H372 Causes damage to organs (Liver) through prolonged or repeated exposure.	
Precautionary Statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves, protective clothing, eye protection and face protection. Response: P308 + P313 IF exposed or concerned: Get medical attention. 	
		Storage:	

according to the OSHA Hazard Communication Standard



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P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture :	Mixture
-----------------------	---------

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sunflower oil	8001-21-6	87.486
Retinyl propionate	7069-42-3	8.649
(dl)-a-Tocopheryl acetate	7695-91-2	2.162
Benzyl alcohol	100-51-6	1.081
Colecalciferol	67-97-0	0.081

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical 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 plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
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. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed Protection of first-aiders	:	May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. First Aid responders should pay attention to self-protection,
Notes to physician	:	and use the recommended personal protective equipment when the potential for exposure exists (see section 8). Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :

Water spray Alcohol-resistant foam



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media Specif fightin Hazar ucts	ic hazards during fire	: :	Carbon oxides Use extinguishing cumstances and t Use water spray t Remove undamag so.	cO2) bustion products may be a hazard to health. measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	al protective equipment fighters	:	Evacuate area. In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SECTION	SECTION 6. ACCIDENTAL RELEASE MEASURES			
tive ec	nal precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
Enviro	nmental precautions	:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages
	Methods and materials for containment and cleaning up		For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this ma employed in the c determine which r Sections 13 and 1	a absorbent material. Tovide diking or other appropriate ep material from spreading. If diked material tore recovered material in appropriate and materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust
	-	ventilation.
Advice on safe handling	:	Do not get on skin or clothing.

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		Handle in accord practice, based o assessment Keep container ti Do not eat, drink	th eyes. ughly after handling. lance with good industrial hygiene and safety on the results of the workplace exposure
Conditions for safe storage		Store locked up. Keep tightly close	
Materials to avoid		: Do not store with Strong oxidizing	stances 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	TWA (mist - total)	10 mg/m³	NIOSH REL
		TWA (mist - respirable)	5 mg/m³	NIOSH REL
(dl)-a-Tocopheryl acetate	7695-91-2	TWA	5000 ug/m3 (OEB 1)	Internal
Benzyl alcohol	100-51-6	TWA	10 ppm	US WEEL
Colecalciferol	67-97-0	TWA	5 µg/m3 (OEB 4)	Internal
		Wipe limit	50 µg/100 cm ²	Internal

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. 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.

Personal protective equipment

Respiratory protection	:	General and local exhaust ventilation is recommended to
		maintain vapor exposures below recommended limits. Where
		concentrations are above recommended limits or are

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Hand	protection	Follow OSHA r use NIOSH/MS by air purifying hazardous che supplied respira release, exposi	opriate respiratory protection should be worn. espirator regulations (29 CFR 1910.134) and HA approved respirators. Protection provided respirators against exposure to any mical is limited. Use a positive pressure air ator if there is any potential for uncontrolled ure levels are unknown, or any other there air purifying respirators may not provide ction.
Ma	aterial	: Chemical-resis	tant gloves
	emarks protection	If the work envi mists or aerosc Wear a faceshi	e gloving. asses with side shields or goggles. ronment or activity involves dusty conditions, ils, wear the appropriate goggles. eld or other full face protection if there is a ect contact to the face with dusts, mists, or
Skin a	and body protection	: Work uniform o Additional body task being perf disposable suit	r laboratory coat. garments should be used based upon the prmed (e.g., sleevelets, apron, gauntlets, s) to avoid exposed skin surfaces. e degowning techniques to remove potentially lothing
Hygie	ne measures	: If exposure to or eye flushing sy working place. When using do Wash contamin The effective of engineering con appropriate deg	chemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. hated clothing before re-use. peration of a facility should include review of htrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	transparent
		amber
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available





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	range				
	Flash p	oint	:	No data available	9
	Evapor	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available)
		explosion limit / Upper bility limit	:	No data available	3
		explosion limit / Lower bility limit	:	No data available	9
	Vapor p	pressure	:	No data available)
	Relative	e vapor density	:	No data available	9
	Relative	e density	:	No data available	9
	Density	,	:	0.925 g/cm ³	
	Solubili Wat	ty(ies) er solubility	:	No data available)
	Partition octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	9
	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Can react with strong oxidizing agents.
Conditions to avoid	:	None known.

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		Oxidizing agentsNo hazardous decomposition products are known.					
SECTION	11. TOXICOLOGICAL	. INF	ORMATION				
Inhala Skin o Ingesi	contact	es of	exposure				
	e toxicity						
Not cl Produ	assified based on avai	lable	information.				
	oral toxicity	:	Acute toxicity e Method: Calcu	estimate: > 5,000 mg/kg lation method			
Acute	inhalation toxicity	:	Acute toxicity e Exposure time Test atmosphe Method: Calcu	ere: dust/mist			
<u>Comp</u>	oonents:						
Sunfl	ower oil:						
Acute	oral toxicity	:		2,000 mg/kg) Test Guideline 401 ed on data from similar materials			
Retin	yl propionate:						
	oral toxicity	:	LD50 (Rat): > 2 Assessment: T icity	2,000 mg/kg The substance or mixture has no acute oral tox-			
(dl)-a	-Tocopheryl acetate:						
Acute	oral toxicity	:	LD50 (Rat): > \$	5,000 mg/kg			
Acute	dermal toxicity	:	LD50 (Rat): > 3 Assessment: T toxicity	3,000 mg/kg The substance or mixture has no acute dermal			
Benzy	yl alcohol:						
Acute	oral toxicity	:	LD50 (Rat): 1,6	620 mg/kg			
Acute	inhalation toxicity	:	LC50 (Rat): > 4 Exposure time Test atmosphe Method: OECE	: 4 h			

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Cole	ecalciferol:			
Acut	e oral toxicity	:	LD50 (Rat, male)	: 35 mg/kg
Acut	e inhalation toxicity	:	Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Expert ju	h dust/mist
Acut	e dermal toxicity	:	Acute toxicity esti Method: Expert ju	
-	corrosion/irritation	able	information.	
Com	iponents:			
Sun	flower oil:			
Spec Resi		:	Rabbit No skin irritation	
Rem		:		om similar materials
Reti	nyl propionate:			
Spec		:	Rabbit	
Meth Resu		:	OECD Test Guide Mild skin irritation	
(-11)	- Taaankamil aastata.			
(ai)-: Spec	a-Tocopheryl acetate:		Rabbit	
Meth		÷	OECD Test Guide	eline 404
Resi	ult	:	No skin irritation	
Benz	zyl alcohol:			
Spec		:	Rabbit	
Meth Rest		:	OECD Test Guide No skin irritation	eline 404
Seri	ous eye damage/eye ir	ritati	on	
	classified based on avail			
Com	<u>iponents:</u>			
Sun	flower oil:			
Spec		:	Rabbit	
Resi Rem	ult Iarks	:	No eye irritation Based on data fro	om similar materials
Poti	nyl propionate:			
Spec			Rabbit	
Resi	ult	:	No eye irritation	
Meth	nod	:	OECD Test Guide	eline 405





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(dl)-a Speci Resul Metho	lt	: : Rabbit : No eye irritatio : OECD Test G	
Benz Speci Resul Metho	lt	: Rabbit : Irritation to eye : OECD Test G	es, reversing within 21 days uideline 405
Colec Speci Resul		: Rabbit : No eye irritatio	on
Resp	iratory or skin sens	itization	
-	sensitization lassified based on av	ailable information.	
-	iratory sensitizatior lassified based on av		
Com	oonents:		
Test	es of exposure es It	: Maximization : Skin contact : Guinea pig : negative : Based on data	Test a from similar materials
Test	es of exposure es od	: Maximization : Skin contact : Guinea pig : OECD Test G : negative	
Test	es of exposure	: : Draize Test : Skin contact : Humans : negative	
Test	es of exposure	: Maximization : Skin contact : Guinea pig	Test





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Method Result		: OECD Test G : negative	uideline 406
	calciferol:		
Test Route	i ype es of exposure	: Maurer optimi : Skin contact	sation test
Speci Resu		: Guinea pig : negative	
	cell mutagenicity lassified based on av	ailable information.	
Com	oonents:		
Sunfl	ower oil:		
Geno	toxicity in vitro	Method: OEC Result: negati	
		Remarks: Bas	ed on data from similar materials
Retin	yl propionate:		
Geno	toxicity in vitro	Method: OEC Result: negati	
		Remarks: Bas	ed on data from similar materials
Geno	toxicity in vivo	: Test Type: Ma cytogenetic as Species: Mou	
		Application Ro	oute: Ingestion
			D Test Guideline 474 ed on data from similar materials
(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: Mous	se function
	yl alcohol:	· Test Turne: Pa	ctorial reverse mutation access (AMES)
Geno	toxicity in vitro	: Test Type: Ba	cterial reverse mutation assay (AMES)





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			Result: negative	
Geno	otoxicity in vivo	:	cytogenetic assay Species: Mouse	nalian erythrocyte micronucleus test (in vivo /) e: Intraperitoneal injection
Cole	calciferol:			
Geno	otoxicity in vitro	:	Test Type: Bacter Method: OECD T Result: equivocal	
				o mammalian cell gene mutation test est Guideline 476
				nosome aberration test in vitro est Guideline 473
Geno	otoxicity in vivo	:	cytogenetic assay Species: Rat Application Route	
			Test Type: In vivo Species: Rat Application Route Result: positive	o mammalian alkaline comet assay e: Ingestion
	n cell mutagenicity - ssment	:	Weight of evidend cell mutagen.	ce does not support classification as a germ
	inogenicity classified based on avail	lable	information.	
<u>Com</u>	ponents:			
(dl)-a	a-Tocopheryl acetate:			
Spec		:	Rat	
	cation Route osure time ılt	:	Ingestion 104 weeks negative	
Benz	yl alcohol:			
Spec		:	Mouse	
Expo	cation Route	:	Ingestion 103 weeks	
Meth	od	:	OECD Test Guide	eline 451



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Resul	lt	:	negative					
IARC No ingredient of this product present at levels greater than or equal to identified as probable, possible or confirmed human carcinogen by IA								
OSHA		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.						
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.						
May c	oductive toxicity damage the unborn chilo ponents:	d.						
	yl propionate:							
	ts on fetal development	:	Species: Monkey Application Route Result: positive					
Repro sessn	oductive toxicity - As- nent	:	Positive evidence of adverse effects on development from human epidemiological studies.					
(dl)-a	-Tocopheryl acetate:							
Effect	ts on fertility	:	Test Type: Repro test Species: Rat Application Route Result: negative	oduction/Developmental toxicity screening e: Ingestion				
Effect	ts on fetal development	:	Test Type: Embr Species: Rabbit Application Route Result: negative					
Benz	yl alcohol:							
Effect	ts on fertility	:	Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion on data from similar materials				
Effect	ts on fetal development	:	Test Type: Embr Species: Mouse Application Route Result: negative	yo-fetal development e: Ingestion				

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стот	-single exposure		
Not cl	assified based on ava	ailable information.	
STOT	-repeated exposure		
			ged or repeated exposure.
	oonents:		
Reting	yl propionate:		
Route	s of exposure	: Ingestion	
	t Organs	: Liver	
Asses	sment		ge to organs through prolonged or repeated
Rema	rks	exposure.	a from similar materials
Roma			
Colec	alciferol:		
	s of exposure	: Ingestion	
-	t Organs	: Kidney, Blood	
Asses	sment		luce significant health effects in animals at cor 10 mg/kg bw or less.
Repea	ated dose toxicity		
Comp	oonents:		
Retin	yl propionate:		
Speci		: Rat	
LÖAE		: > 1 - 10 mg/kg	I
	ation Route	: Ingestion	
Expos Rema	sure time	: 3 Months	a from similar materials
Rema	1K5	. Daseu on uala	
(dl)-a-	Tocopheryl acetate	:	
Specie		: Rat	
NOAE		: 500 mg/kg	
	ation Route	: Ingestion : 90 Days	
Expos		. 90 Days	
Benzy	/l alcohol:		
Specie		: Rat	
NOAE		: 1.072 mg/l	
	ation Route	: inhalation (due : 28 Days	st/mist/fume)
Metho		: OECD Test G	uideline 412
Colec	alciferol:		
Speci		: Rat	
NOAE		: 0.06 mg/kg	
LOAE	L ation Route	: 0.3 mg/kg : Ingestion	





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Metho	od	:	OECD Test Guide	eline 408
-	ation toxicity assified based on availa	ble	information.	
Expe	rience with human exp	osu	ire	
Comp	oonents:			
Retin Ingesi	yl propionate:		Symptoms: liver i	mairmant
inges		•	Remarks: Based Symptoms: Embr	on data from similar materials
ECTION	12. ECOLOGICAL INFO	ORN	ATION	
	,			
	oxicity			
<u>Comp</u>	oonents:			
	ower oil:			
Toxici	ity to fish	:	Exposure time: 48	idus (Golden orfe)): > 100 mg/l 3 h on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 48 Method: Directive	e 67/548/EEC, Annex V, C.2. on data from similar materials
Toxici	ity to microorganisms	:	Exposure time: 18	onas putida): 883 mg/l 3 h on data from similar materials
Retin	yl propionate:			
	ity to fish	:	LL50 (Leuciscus i Exposure time: 90 Method: DIN 384	
Toxici	ity to microorganisms	:	Exposure time: 18	sludge): > 1,000 mg/l 30 min est Guideline 209
(dl)-a	-Tocopheryl acetate:			
	ity to fish	:	Exposure time: 96	chus mykiss (rainbow trout)): > 100 mg/l 5 h est Guideline 203
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): > 100 mg/l 3 h



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				Method: OECD Te	est Guideline 202
	Toxicity to algae/aquatic plants		:	ErC50 (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir 100 mg/l Exposure time: 72 Method: OECD Te	rchneriella subcapitata (green algae)): >= ? h est Guideline 201
	Toxicity icity)	<pre>/ to fish (Chronic tox-</pre>	:	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	
	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	
	Toxicity plants	/ to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				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 Te	
	Coleca	lciferol:			
	Toxicity	/ to fish	:	LL50 (Danio rerio Exposure time: 96 Method: OECD Te	
		<i>r</i> to daphnia and other invertebrates	:	EL50 (Daphnia ma Exposure time: 48 Method: OECD Te	
	Toxicity plants	∕ to algae/aquatic	:	EL50 (Scenedesn 100 mg/l	nus capricornutum (fresh water algae)): >

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		Exposure time: Method: OECD	: 96 h) Test Guideline 201
Persi	stence and degrada	bility	
Com	ponents:		
	yl propionate: gradability	Biodegradatior Exposure time:	
(dl)-a	-Tocopheryl acetate	:	
Biode	gradability	Biodegradatior Exposure time:	
Benz	yl alcohol:		
Biode	egradability	: Result: Readily Biodegradation Exposure time:	
Coled	calciferol:		
Biode	egradability	Biodegradatior Exposure time:	
Bioad	ccumulative potentia	al	
Com	ponents:		
Retin	yl propionate:		
	ion coefficient: n- ol/water	: log Pow: 9.12 Remarks: Calc	ulation
Partiti	yl alcohol: ion coefficient: n- ol/water	: log Pow: 1.05	
Colec	calciferol:		
	ion coefficient: n- ol/water	: log Pow: > 6.2 Method: OECD	0 Test Guideline 107
	lity in soil ata available		

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Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues		Dispose of in accordance with local regulations. Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste
		handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

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.

Domestic regulation

49 CFR Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Reproductive toxicity Specific target organ toxicity (single or repeated exposure)
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

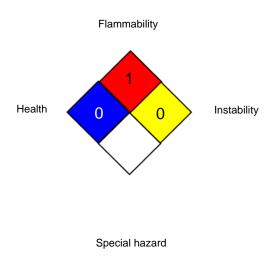


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US S	tate Regulations				
Penr	nsylvania Right To Kr	low			
	Sunflower oil Retinyl propionat Benzyl alcohol	e	8001-21-6 7069-42-3 100-51-6		
WAR know	California Prop. 65 WARNING: This product can expose you to chemicals including Retinyl propionate, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.				
Calif	ornia Permissible Ex Sunflower oil	posure Limits for Ch	emical Contaminants 8001-21-6		
The i	The ingredients of this product are reported in the following inventories:				
DSL		: not determined	ł		
AICS	5	: not determined	ł		
IECS	C	: not determined	ł		

SECTION 16. OTHER INFORMATION







HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
US WEEL / TWA	:	8-hr TŴA



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AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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

Revision Date : 09/30/2023

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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