



### **Multivitamin Aqueous Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
4.0	07/06/2024	4248876-00012	Date of first issue: 05/06/2019

### **SECTION 1. IDENTIFICATION**

Product name	:	Multivitamin Aqueous Formulation
Other means of identification	:	No data available

### Manufacturer or supplier's details

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 Hazardous Products Regulations

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Benzyl alcohol	Benzenemetha- nol	100-51-6	>= 0.1 - < 1 *
Riboflavin 5'-(sodium hydrogen phosphate)	Riboflavin phosphate sodi- um	130-40-5	>= 0 - < 0.1 *
Pyridoxine Hydrochlo- ride	3,4- Pyridinedi- methanol, 5- hydroxy-6- methyl-, hydro- chloride	58-56-0	>= 0 - < 0.1 *
Cyanocobalamin	No data availa- ble	68-19-9	>= 0 - < 0.1 *

\* Actual concentration or concentration range is withheld as a trade secret

according to the Hazardous Products Regulations



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SECTION	4. FIRST AID MEAS	URES			
lf inh	aled		remove to fresh air. cal attention if symptoms occur.		
In ca	In case of skin contact		n water and soap as a precaution.		
In ca	In case of eye contact :		Get medical attention if symptoms occur. Flush eyes with water as a precaution.		

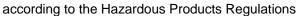
If swallowed	<ul> <li>Get medical attention if irritation develops and persists.</li> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention if symptoms occur.</li> <li>Rinse mouth thoroughly with water.</li> </ul>
Most important symptoms and effects, both acute and delayed	: None known.
Protection of first-aiders Notes to physician	<ul><li>No special precautions are necessary for first aid responders.</li><li>Treat symptomatically and supportively.</li></ul>

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides
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.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice (see section 7) and personal protective equipment 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.





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	ds and materials for nment and cleaning up	For large spills, containment to k can be pumped, container. Clean up remain absorbent. Local or nationa disposal of this r employed in the determine which Sections 13 and	ert absorbent material. provide diking or other appropriate keep material from spreading. If diked material store recovered material in appropriate ning materials from spill with suitable I regulations may apply to releases and material, as well as those materials and items cleanup of releases. You will need to a regulations are applicable. 15 of this SDS provide information regarding mational requirements.

### SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
		Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers.
		Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents Gases

### 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
Riboflavin 5'-(sodium hydrogen phosphate)	130-40-5	TWA	100 ug/m3 (OEB 2)	Internal
Pyridoxine Hydrochloride	58-56-0	TWA	OEB 3 (>= 10 < 100 µg/m3)	Internal
Cyanocobalamin	68-19-9	TWA	15 µg/m3 (OEB 3)	Internal
		Wipe limit	150 µg/100 cm2	Internal

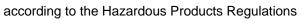
#### Engineering measures

Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection





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	Eye pro Skin an Hygien	narks otection Id body protection e measures	:	Wear the following Safety glasses Skin should be wa If exposure to che eye flushing syste working place. When using do no Wash contaminate	re breaks and at the end of workday. g personal protective equipment: ashed after contact. emical is likely during typical use, provide ems and safety showers close to the ot eat, drink or smoke. ed clothing before re-use.
	Appear		= 1111	Aqueous solution	
	Color		:	red	
	Odor		:	characteristic	
	Odor Tl	hreshold	:	No data available	9
	pН		:	No data available	
	Melting	point/freezing point	:	0°C	
	Initial b range	oiling point and boiling	:	100.5 °C	
	Flash p	oint	:	No data available	
	Evapor	ation rate	:	No data available	)
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	3
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	)
	Relative	e vapor density	:	No data available	)
	Relative	e density	:	1.01	
	Density	,	:	No data available	)
		ty(ies) er solubility n coefficient: n-	:	No data available Not applicable	3
			•		





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Au De	tanol/water utoignition temperature ecomposition temperature scosity	: No data availa : No data availa	
V I.	Viscosity, kinematic	: No data availa	able
Ex	plosive properties	: Not explosive	
	xidizing properties olecular weight	: The substance : No data availa	e or mixture is not classified as oxidizing. able
	article characteristics article size	: Not applicable	)

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact		
Acute toxicity Not classified based on ava <u>Components:</u>	ilable	information.
Benzyl alcohol: Acute oral toxicity	:	LD50 (Rat): 1,620 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 4.178 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403

### Riboflavin 5'-(sodium hydrogen phosphate):



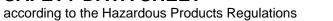
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Acute	e oral toxicity	:	LD50 (Rat): > 20	0,000 mg/kg
Pyrid	oxine Hydrochloride:			
Acute	oral toxicity	:	LD50 (Rat): 4,00	00 mg/kg
Cyan	ocobalamin:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,	,000 mg/kg
•••••	corrosion/irritation lassified based on avail	able	information.	
Com	oonents:			
Benz	yl alcohol:			
Speci		:	Rabbit	
Metho Resu		:	OECD Test Gui No skin irritation	
i tesu	it.	•		
Pyridoxine Hydrochloride:				
Speci Resu		:	Rabbit No skin irritation	
_	lassified based on avail ponents:	able	information.	
	yl alcohol:			
Speci Resu		:	Rabbit	s, reversing within 21 days
Metho		:	OECD Test Gui	
Pvrid	oxine Hydrochloride:			
Speci	•	:	Rabbit	
Resu	lt	:	No eye irritation	
Resp	iratory or skin sensiti	zatio	on	
Skin	sensitization			
Not c	lassified based on avail	able	information.	
	iratory sensitization		information	
INOL C	lassified based on avail	able	inionnation.	
	•	able		
Com	lassified based on avail ponents:	able	mornation.	
Comp Benz Test	lassified based on avail ponents: yl alcohol:	able :	Maximization Te	est

: Guinea pig

Species





## **Multivitamin Aqueous Formulation**

Method       ::::::::::::::::::::::::::::::::::::	rsion )	Revision Date: 07/06/2024	SDS Number 4248876-000	
Test Type:Maximization TestRoutes of exposure:Skin contactSpecies::Gern cell mutagenicityNot classified based on available information.Components:Benzyl alcohol:Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negativeGenotoxicity in vitro:Test Type: Mammalian erythrocyte micronucleus test (in vi cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negativeRiboflavin 5'-(sodium hydrogen phosphate):Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negativeRiboflavin 5'-(sodium hydrogen phosphate):Genotoxicity in vitro:Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 471 Result: negative 				est Guideline 406
Test Type:Maximization TestRoutes of exposure:Skin contactSpecies::Gern cell mutagenicityNot classified based on available information.Components:Benzyl alcohol:Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negativeGenotoxicity in vitro:Test Type: Mammalian erythrocyte micronucleus test (in vi cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negativeRiboflavin 5'-(sodium hydrogen phosphate):Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negativeRiboflavin 5'-(sodium hydrogen phosphate):Genotoxicity in vitro:Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negativePyridoxine Hydrochloride: Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negativePyridoxine Hydrochloride: Genotoxicity in vitro:Cyanocobalamin: Genotoxicity in vitro:Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Pyrid	oxine Hydrochloride	:	
Not classified based on available information.         Components:         Benzyl alcohol:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vivo       : Test Type: Mammalian erythrocyte micronucleus test (in vircytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative         Riboflavin 5'-(sodium hydrogen phosphate):         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials         Pyridoxine Hydrochloride:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials         Pyridoxine Hydrochloride:       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Cyanocobalamin:       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Test Route Speci Metho	Type es of exposure les od	: Maximiza : Skin cont : Guinea p : OECD Te	act ig
Benzyl alcohol:       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vivo       : Test Type: Mammalian erythrocyte micronucleus test (in vi cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative         Riboflavin 5'-(sodium hydrogen phosphate):         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials         Pyridoxine Hydrochloride: Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Cyanocobalamin: Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative		• •	ilable informatio	٦.
Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negativeGenotoxicity in vivo:Test Type: Mammalian erythrocyte micronucleus test (in vicytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negativeRiboflavin 5'-(sodium hydrogen phosphate)::Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materialsPyridoxine Hydrochloride: Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materialsPyridoxine Hydrochloride: Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negativeCyanocobalamin: Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Com	oonents:		
Result: negative         Genotoxicity in vivo       : Test Type: Mammalian erythrocyte micronucleus test (in vicytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative         Riboflavin 5'-(sodium hydrogen phosphate):         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials         Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materials         Pyridoxine Hydrochloride:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Cyanocobalamin:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Benz	yl alcohol:		
cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negativeRiboflavin 5'-(sodium hydrogen phosphate): Genotoxicity in vitroTest Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materialsPyridoxine Hydrochloride: Genotoxicity in vitroTest Type: Bacterial reverse mutation assay (AMES) Result: negative Remarks: Based on data from similar materialsPyridoxine Hydrochloride: Genotoxicity in vitroTest Type: Bacterial reverse mutation assay (AMES) Result: negativeCyanocobalamin: Genotoxicity in vitroTest Type: Bacterial reverse mutation assay (AMES) Result: negative	Geno	toxicity in vitro		
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materialsPyridoxine Hydrochloride: Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES) Result: negativeCyanocobalamin: Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Geno	toxicity in vivo	cytogene Species: Applicatio	tic assay) Mouse on Route: Intraperitoneal injection
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materialsPyridoxine Hydrochloride: Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES) Result: negativeCyanocobalamin: Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Ribof	flavin 5'-(sodium hyd	rogen phospha	te):
Method: OECD Test Guideline 473 Result: negative Remarks: Based on data from similar materialsPyridoxine Hydrochloride: Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negativeCyanocobalamin: Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negativeCyanocobalamin: Genotoxicity in vitro:Test Type: Bacterial reverse mutation assay (AMES) Result: negative			: Test Type Method: 0 Result: n	e: Bacterial reverse mutation assay (AMES) DECD Test Guideline 471 egative
Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Cyanocobalamin:       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative			Method: ( Result: n	DECD Test Guideline 473 egative
Cyanocobalamin:         Genotoxicity in vitro       : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Pyrid	oxine Hydrochloride	:	
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Geno	toxicity in vitro		
Result: negative	Cyan	ocobalamin:		
Carcinogenicity	Geno	toxicity in vitro		
our onrogementy	Carci	nogenicity		

Not classified based on available information.



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<u>Com</u>	ponents:			
Benz	yl alcohol:			
	cation Route sure time od	:	Mouse Ingestion 103 weeks OECD Test Guid negative	deline 451
Repr	oductive toxicity			
Not c	lassified based on availa	able	information.	
<u>Com</u>	ponents:			
	yl alcohol:			
Effec	ts on fertility	:	Species: Rat Application Rout Result: negative	
Effec	ts on fetal development	:	Test Type: Emb Species: Mouse Application Rout Result: negative	e: Ingestion
Pyric	loxine Hydrochloride:			
Effec	ts on fetal development	:	Test Type: Emb Species: Rat Application Rout Result: negative	
	<b>F-single exposure</b> classified based on availa	able	information.	
	<b>F-repeated exposure</b> classified based on availa	able	information.	
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
Benz	yl alcohol:			
		:	Rat 1 072 mg/l	

Species	:	Rat
NOAEL	:	1.072 mg/l
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	28 Days
Method	:	OECD Test Guideline 412

### Riboflavin 5'-(sodium hydrogen phosphate):

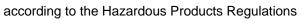
	-	-	-	-	-	-
Species				Rat		
Opeoleo			•	itut		
NOAEL			:	> 10	)0 m	g/kg

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E M	Applica Exposu Method Remark			Ingestion 13 Weeks OECD Test Guide Based on data fro	line 408 m similar materials
	•	ion toxicity sified based on availa	ble	information.	
SEC	TION 12	2. ECOLOGICAL INFO	DRN	IATION	
I	Ecotox	icity			
<u>(</u>	Compo	nents:			
	<b>Benzyl</b> Toxicity	<b>alcohol:</b> to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l i 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	
á		to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
F	Ribofla	vin 5'-(sodium hydro	gen	phosphate):	
-	Toxicity	to fish	:	Exposure time: 96	s promelas (fathead minnow)): > 64.3 mg/l 5 h on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 47.4 mg/l h on data from similar materials
I	Pyrido	kine Hydrochloride:			
	Toxicity	-	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l i h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l h





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	<b>Cyanoc</b> Toxicity	<b>obalamin:</b> to fish	:	Exposure time: 14	hus mykiss (rainbow trout)): > 1 - 10 mg/l · d on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48	nia dubia (water flea)): > 10 - 100 mg/l h on data from similar materials
	Toxicity plants	to algae/aquatic	:	Exposure time: 72	arvula (marine algae)): > 0.1 - 1 mg/l : h on data from similar materials
				Exposure time: 7	or (common duckweed)): > 0.1 - 1 mg/l d on data from similar materials
	Toxicity icity)	to fish (Chronic tox-	:	Exposure time: 16	o (zebra fish)): > 1 mg/l i d on data from similar materials
		to daphnia and other invertebrates (Chron- y)	:	Exposure time: 28	nagna (Water flea)): > 0.1 - 1 mg/l d on data from similar materials
	Persiste	ence and degradabili	ty		
	<u>Compo</u>	nents:			
	-	<b>alcohol:</b> adability	:	Result: Readily bio Biodegradation: 9 Exposure time: 14	92 - 96 %
	Ribofla	vin 5'-(sodium hydro	gen	phosphate):	
	Biodegr	adability	:	Result: Readily bio Remarks: Based of	odegradable. on data from similar materials
	•	t <b>ine Hydrochloride:</b> adability	:	Result: Readily bio Biodegradation: 9 Exposure time: 28 Method: OECD Te	94 %
	Bioaccu	umulative potential			
	<u>Compo</u>	nents:			
	-	alcohol: n coefficient: n-	:	log Pow: 1.05	



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ersion .0	Revision Date: 07/06/2024	SDS Number: 4248876-00012	Date of last issue: 04/06/2024 Date of first issue: 05/06/2019	
octan	ol/water			
Ribo	flavin 5'-(sodium hyd	rogen phosphate):		
	ion coefficient: n- ol/water	: log Pow: -0.65 Remarks: Calc		
Pyrid	oxine Hydrochloride	:		
	ion coefficient: n- ol/water	: log Pow: 4.32		
	lity in soil ata available			
	r adverse effects			
No da	ata available			

### **Disposal methods**

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

### **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**

#### TDG

Not regulated as a dangerous good

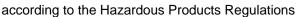
#### Special precautions for user

Not applicable

### **SECTION 15. REGULATORY INFORMATION**

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

AICS : not determined





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DSL		: not determined	
IECSC	;	: not determined	

### SECTION 16. OTHER INFORMATION

### Full text of other abbreviations

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

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



# Multivitamin Aqueous Formulation

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