

## Multivitamin (with Soy Oil) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 10.10.2020
2.0	24.06.2021	4257970-00006	Date of first issue: 06.05.2019

---

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Multivitamin (with Soy Oil) Formulation

#### Manufacturer or supplier's details

Company : MSD

Address : Briahnager - Off Pune Nagar Road  
Wagholi - Pune - India 412 207

Telephone : +1-908-740-4000

Emergency telephone number : +1-908-423-6000

E-mail address : EHSDATASTEWARD@msd.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Veterinary product

### 2. HAZARDS IDENTIFICATION

#### Manufacture, Storage and Import of Hazardous Chemicals Rules 1989


##### Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

##### GHS Classification

Skin corrosion/irritation	: Category 3
Reproductive toxicity	: Category 1A
Specific target organ toxicity - repeated exposure	: Category 1 (Liver)

##### GHS label elements

Hazard pictograms	: 
Signal word	: Danger
Hazard statements	: H316 Causes mild skin irritation. H360D May damage the unborn child. H372 Causes damage to organs (Liver) through prolonged or repeated exposure.
Precautionary statements	: <b>Prevention:</b> P203 Obtain, read and follow all safety instructions before use. P260 Do not breathe mist or vapours.

## Multivitamin (with Soy Oil) Formulation

Version 2.0      Revision Date: 24.06.2021      SDS Number: 4257970-00006      Date of last issue: 10.10.2020  
 Date of first issue: 06.05.2019

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/ face protection.

**Response:**

P318 IF exposed or concerned, get medical advice.  
 P332 + P317 If skin irritation occurs: Get medical help.

**Storage:**

P405 Store locked up.

**Disposal:**

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

**Other hazards which do not result in classification**

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Vitamin A Palmitate	79-81-2	>= 20 - < 25
(dl)-a-Tocopheryl acetate	7695-91-2	>= 5 - < 10
Colecalciferol	67-97-0	>= 0.1 - < 0.25

### 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 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 : Causes mild skin irritation.  
 May damage the unborn child.  
 Causes damage to organs through prolonged or repeated exposure.

Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment

## Multivitamin (with Soy Oil) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 10.10.2020
2.0	24.06.2021	4257970-00006	Date of first issue: 06.05.2019

---

**II** Notes to physician : when the potential for exposure exists (see section 8).  
 : Treat symptomatically and supportively.

---

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray  
 Alcohol-resistant foam  
 Carbon dioxide (CO<sub>2</sub>)  
 Dry chemical

Unsuitable extinguishing media : None known.

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances 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.

**II** Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
 Use personal protective equipment.

---

### 6. ACCIDENTAL RELEASE MEASURES

**II** Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
 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.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.  
 For large spills, provide dyking or other appropriate containment 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 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 determine which regulations are applicable.  
 Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

---

### 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE

---

## Multivitamin (with Soy Oil) Formulation

Version 2.0      Revision Date: 24.06.2021      SDS Number: 4257970-00006      Date of last issue: 10.10.2020  
 Date of first issue: 06.05.2019

Local/Total ventilation	: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	: Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	: Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Vitamin A Palmitate	79-81-2	TWA	$\geq 1 < 10 \text{ ug/m}^3$ (OEB 4)	Internal
(dl)-a-Tocopheryl acetate	7695-91-2	TWA	$5000 \text{ ug/m}^3$ (OEB 1)	Internal
Colecalciferol	67-97-0	TWA	$5 \text{ ug/m}^3$ (OEB 4)	Internal
		Wipe limit	$50 \text{ ug/100 cm}^2$	Internal

**Engineering measures** : Minimize workplace exposure concentrations.  
If sufficient ventilation is unavailable, use with local exhaust ventilation.

#### Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type : Organic vapour type  
Hand protection

**Material** : Chemical-resistant gloves

**Remarks** : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance 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

## Multivitamin (with Soy Oil) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 10.10.2020
2.0	24.06.2021	4257970-00006	Date of first issue: 06.05.2019

<div style="border-left: 3px double black; height: 40px; margin-left: 5px;"></div>	<p>chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.</p>
<p>Eye protection</p>	<p>: Wear the following personal protective equipment: Safety glasses</p>
<div style="border-left: 3px double black; height: 40px; margin-left: 5px;"></div>	<p>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 clothing (gloves, aprons, boots, etc).</p>
<p>Skin and body protection</p>	<p>: 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.</p>
<div style="border-left: 3px double black; height: 40px; margin-left: 5px;"></div>	<p>Hygiene measures</p>

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Aqueous solution
Colour	: yellow
Odour	: characteristic
Odour Threshold	: No data available
pH	: No data available
Melting point/freezing point	: -5 °C
Initial boiling point and boiling range	: 194 °C
Flash point	: 244 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: Not applicable
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 0.9 - 0.94
Density	: No data available

**Multivitamin (with Soy Oil) Formulation**

Version 2.0      Revision Date: 24.06.2021      SDS Number: 4257970-00006      Date of last issue: 10.10.2020  
Date of first issue: 06.05.2019

---

Solubility(ies)  
Water solubility : practically insoluble

Solubility in other solvents : slightly soluble  
Solvent: Ethanol

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, dynamic : 68.41 - 68.81 mPa.s ( 25 °C)  
Method: Brookfield

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Molecular weight : No data available

Particle size : Not applicable

---

**10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Can react with strong oxidizing agents.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

---

**11. TOXICOLOGICAL INFORMATION**

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

**Acute toxicity**

|| Not classified based on available information.

**Product:**

|| Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

|| Acute inhalation toxicity : Acute toxicity estimate: > 10 mg/l  
Exposure time: 4 h

---

## Multivitamin (with Soy Oil) Formulation

Version 2.0      Revision Date: 24.06.2021      SDS Number: 4257970-00006      Date of last issue: 10.10.2020  
 Date of first issue: 06.05.2019

Test atmosphere: dust/mist  
 Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
 Method: Calculation method

### Components:

#### **Vitamin A Palmitate:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
 Remarks: Based on data from similar materials

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

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 3,000 mg/kg  
 Assessment: The substance or mixture has no acute dermal toxicity

#### **Colecalciferol:**

Acute oral toxicity : LD50 (Rat, male): 35 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 0.05 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Method: Expert judgement

Acute dermal toxicity : Acute toxicity estimate: 50 mg/kg  
 Method: Expert judgement

### **Skin corrosion/irritation**

Causes mild skin irritation.

### Components:

#### **Vitamin A Palmitate:**

Species : Rabbit  
 Method : OECD Test Guideline 404  
 Result : Mild skin irritation

#### **(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

## Multivitamin (with Soy Oil) Formulation

Version 2.0      Revision Date: 24.06.2021      SDS Number: 4257970-00006      Date of last issue: 10.10.2020  
 Date of first issue: 06.05.2019

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:

Test Type : Draize Test  
 Exposure routes : Skin contact  
 Species : Humans  
 Result : negative

#### Colecalciferol:

Test Type : Maurer optimisation test  
 Exposure routes : Skin contact  
 Species : Guinea pig  
 Result : negative

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Vitamin A Palmitate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
 Result: negative  
 Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)



## Multivitamin (with Soy Oil) Formulation

Version 2.0      Revision Date: 24.06.2021      SDS Number: 4257970-00006      Date of last issue: 10.10.2020  
 Date of first issue: 06.05.2019

		Species: Mouse Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative
	<b>(dl)-a-Tocopheryl acetate:</b>	
	Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
		Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
	Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative
	<b>Colecalciferol:</b>	
	Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: equivocal
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
		Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
	Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Rat Application Route: Ingestion Method: OECD Test Guideline 474 Result: negative
		Test Type: In vivo mammalian alkaline comet assay Species: Rat Application Route: Ingestion Result: positive
	Germ cell mutagenicity - Assessment	: Weight of evidence does not support classification as a germ cell mutagen.

**Carcinogenicity**

|| Not classified based on available information.

## Multivitamin (with Soy Oil) Formulation

Version 2.0      Revision Date: 24.06.2021      SDS Number: 4257970-00006      Date of last issue: 10.10.2020  
 Date of first issue: 06.05.2019

### Components:

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

Species : Rat  
 Application Route : Ingestion  
 Exposure time : 104 weeks  
 Result : negative

### **Reproductive toxicity**

|| May damage the unborn child.

### Components:

#### **Vitamin A Palmitate:**

Effects on foetal development : Test Type: Embryo-foetal development  
 Species: Monkey  
 Application Route: Ingestion  
 Result: positive

Reproductive toxicity - Assessment : Positive evidence of adverse effects on development from human epidemiological studies.

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

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test  
 Species: Rat  
 Application Route: Ingestion  
 Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
 Species: Rabbit  
 Application Route: Ingestion  
 Result: negative

### **STOT - single exposure**

|| Not classified based on available information.

### **STOT - repeated exposure**

|| Causes damage to organs (Liver) through prolonged or repeated exposure.

### Components:

#### **Vitamin A Palmitate:**

Exposure routes : Ingestion  
 Target Organs : Liver  
 Assessment : Causes damage to organs through prolonged or repeated exposure.  
 Remarks : Based on data from similar materials

#### **Colecalciferol:**

Exposure routes : Ingestion  
 Target Organs : Kidney, Blood, Bone  
 Assessment : Shown to produce significant health effects in animals at con-

## Multivitamin (with Soy Oil) Formulation

Version 2.0      Revision Date: 24.06.2021      SDS Number: 4257970-00006      Date of last issue: 10.10.2020  
 Date of first issue: 06.05.2019

|| concentrations of 10 mg/kg bw or less.

### Repeated dose toxicity

#### Components:

##### Vitamin A Palmitate:

Species : Rat  
 LOAEL : > 1 - 10 mg/kg  
 Application Route : Ingestion  
 Exposure time : 3 Months  
 Remarks : Based on data from similar materials

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

Species : Rat  
 NOAEL : 500 mg/kg  
 Application Route : Ingestion  
 Exposure time : 90 Days

##### Colecalciferol:

Species : Rat  
 NOAEL : 0.06 mg/kg  
 LOAEL : 0.3 mg/kg  
 Application Route : Ingestion  
 Exposure time : 90 Days  
 Method : OECD Test Guideline 408

### Aspiration toxicity

|| Not classified based on available information.

### Experience with human exposure

#### Components:

##### Vitamin A Palmitate:

Ingestion : Symptoms: liver impairment  
 Remarks: Based on data from similar materials  
 Symptoms: Embryo-foetal toxicity  
 Remarks: Based on data from similar materials

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### Vitamin A Palmitate:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1,000 mg/l  
 Exposure time: 96 h  
 Method: DIN 38412  
 Remarks: Based on data from similar materials  
 Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l

## Multivitamin (with Soy Oil) Formulation

Version 2.0      Revision Date: 24.06.2021      SDS Number: 4257970-00006      Date of last issue: 10.10.2020  
 Date of first issue: 06.05.2019

aquatic invertebrates	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
<b>(dl)-a-Tocopheryl acetate:</b>	
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: ErC50 ( Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC ( Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	: EC50: > 927 mg/l Exposure time: 30 min Method: ISO 8192
Toxicity to fish (Chronic toxicity)	: NOEC: 100 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)
<b>Colecalciferol:</b>	
Toxicity to fish	: LL50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EL50 ( Scenedesmus capricornutum (fresh water algae)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 201

**Persistence and degradability****Components:****Vitamin A Palmitate:**

## Multivitamin (with Soy Oil) Formulation

Version 2.0      Revision Date: 24.06.2021      SDS Number: 4257970-00006      Date of last issue: 10.10.2020  
 Date of first issue: 06.05.2019

**Biodegradability** : Result: Not readily biodegradable.  
 Biodegradation: 40 - 50 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F

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

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

**Colecalciferol:**

**Biodegradability** : Result: Not readily biodegradable.  
 Biodegradation: <= 7 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301C

**Bioaccumulative potential**

**Components:**

**Vitamin A Palmitate:**

Partition coefficient: n-octanol/water : log Pow: > 6.2

**Colecalciferol:**

Partition coefficient: n-octanol/water : log Pow: > 6.2  
 Method: OECD Test Guideline 107

**Mobility in soil**

No data available

**Other adverse effects**

No data available

### 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.  
 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.

### 14. TRANSPORT INFORMATION

**International Regulations**

**UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**Multivitamin (with Soy Oil) Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 10.10.2020
2.0	24.06.2021	4257970-00006	Date of first issue: 06.05.2019

---

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to IMO instruments**

Not applicable for product as supplied.

---

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****The components of this product are reported in the following inventories:**

AICS : not determined

DSL : not determined

IECSC : not determined

---

**16. OTHER INFORMATION****Further information**Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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

Date format : dd.mm.yyyy

**Full text of other abbreviations**

AIC - 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

## Multivitamin (with Soy Oil) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 10.10.2020
2.0	24.06.2021	4257970-00006	Date of first issue: 06.05.2019

---

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; 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 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.

IN / EN