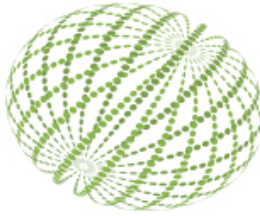


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## DATA PACK



## Tomato Seed Oil

## REPORTED BENEFITS AND USES

With its rich content of nutrients and essential fatty acids, particularly *Omega-6* Linoleic Acid, **Tomato Seed Oil** makes a great addition to natural after-sun products to help soothe the skin and reduce the negative effects of sunburn. **Solanum Lycopersicum Seed Oil** is also useful for calming skin inflammation and is a terrific alternative for a skin cleanser for those with sensitive skin that may be irritated by soap. **Tomato Seed Oil** also has anti-inflammatory effects, which can help to reduce the redness and inflammation associated with acne.

In haircare products, **Tomato Seed Oil** can help to reduce dandruff and other problems caused by a dry, flaky scalp. It also promotes soft, shiny manageable hair by lubricating it against breakage and from become dry and brittle. Also, the **Vitamin** and carotenoids present in **Tomato Seed Oil** have an active role in scavenging free radicals and increasing collagen production which help in the healing process of the skin and repairing the damage that's already done, making the skin look younger and fresher.

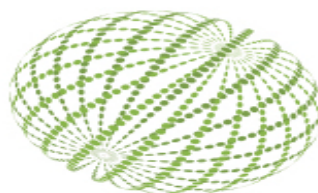
56 Lancaster Drive Goonellabah NSW 2480

P + 61 2 6624 3944

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F + 61 2 6624 2436

[sales@phytoverse.com.au](mailto:sales@phytoverse.com.au)



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## Technical Data Sheet

**Trade Name:** Tomato Seed Oil

**Code:** PVTOMATOSOIL

**INCI Name:** Solanum Lycopersicum Seed Oil

**CAS number:** 90131-63-8

	U.M.	Test methods	Range
Physical status at 25°C		Visual	Liquid
Colour		Visual	Yellow Orange Red
Odour		Visual	Characteristic
Acid value	mgKOH/g	AOCS Cd3a-63	≤ 1.0
Peroxide value	meqO <sub>2</sub> /Kg	Internal method	≤ 3.0
Relative Density at 20°C		ASTM D1298-85	0.915 – 0.925
Refractive Index at 20°C		AOCS tpla-64	1.460 – 1.480
Iodine Value	gI <sub>2</sub> /100	AOCS Tg2a-64	120.0 – 135.0
Saponification Value	mgKOH/g	AOCS Cd3-25	186.0 – 198.0

### Fatty acids composition % (GLC):

Palmitic acid	C16:0	4.0 – 10.0
Stearic acid	C18:0	2.0 – 7.0
Oleic acid	C18:1	18.0 – 30.0
Linoleic acid	C18:2	50.0 – 60.0
α-Linolenic acid	C18:3	< 3.0

**Special advice for storage conditions and shelf life:** Stored in room temperature possibly in the original packaging and away from direct sunlight and heat resources. Shelf life is 24 months minimum in cool conditions in unopened container.



## CERTIFICATE OF ANALYSIS COVER PAGE

<b>SAMPLE NAME</b>	Tomato Seed Oil		
<b>CLIENT</b>	Phytoverse Oils Pty Ltd Trading as Phytoverse	<b>ARL JOB NUMBER</b>	A25-00-0677
<b>CUSTOMER REFERENCE</b>	40802412	<b>SAMPLE ID</b>	A25-00-0677-0040
<b>SAMPLE FORM</b>	Oil-Fixed	<b>CERTIFICATE ISSUE NUMBER</b>	1
<b>METHOD</b>	ARL-TM149	<b>CERTIFICATE DATE</b>	03 April 2025
<b>ANALYSIS</b>	Fatty acid profile by GC/FID		
<b>CERTIFICATE ID</b>	A25-00-0677-0040_FAMES_Generic_ARL1		

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## CERTIFICATE OF ANALYSIS

<b>SAMPLE NAME</b>	Tomato Seed Oil		
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<b>METHOD</b>	ARL-TM149	<b>CERTIFICATE DATE</b>	03 April 2025
<b>ANALYSIS</b>	Fatty acid profile by GCFID		
<b>CERTIFICATE ID</b>	A25-00-0677-0040_FAMES_Generic_ARL1		
<b>QC AUTHORISED</b>	<i>D. Savins</i>		

TEST	RESULTS
	Area%
Palmitic acid	6.6
Palmitoleic acid	0.1
Stearic acid	3.6
Oleic acid	27.5
cis-Vaccenic acid	0.7
Linoleic acid	56.6
$\alpha$ -Linolenic acid	2.6
Arachidic acid	0.3
11-Eicosenoic acid	0.2
Behenic acid	0.7

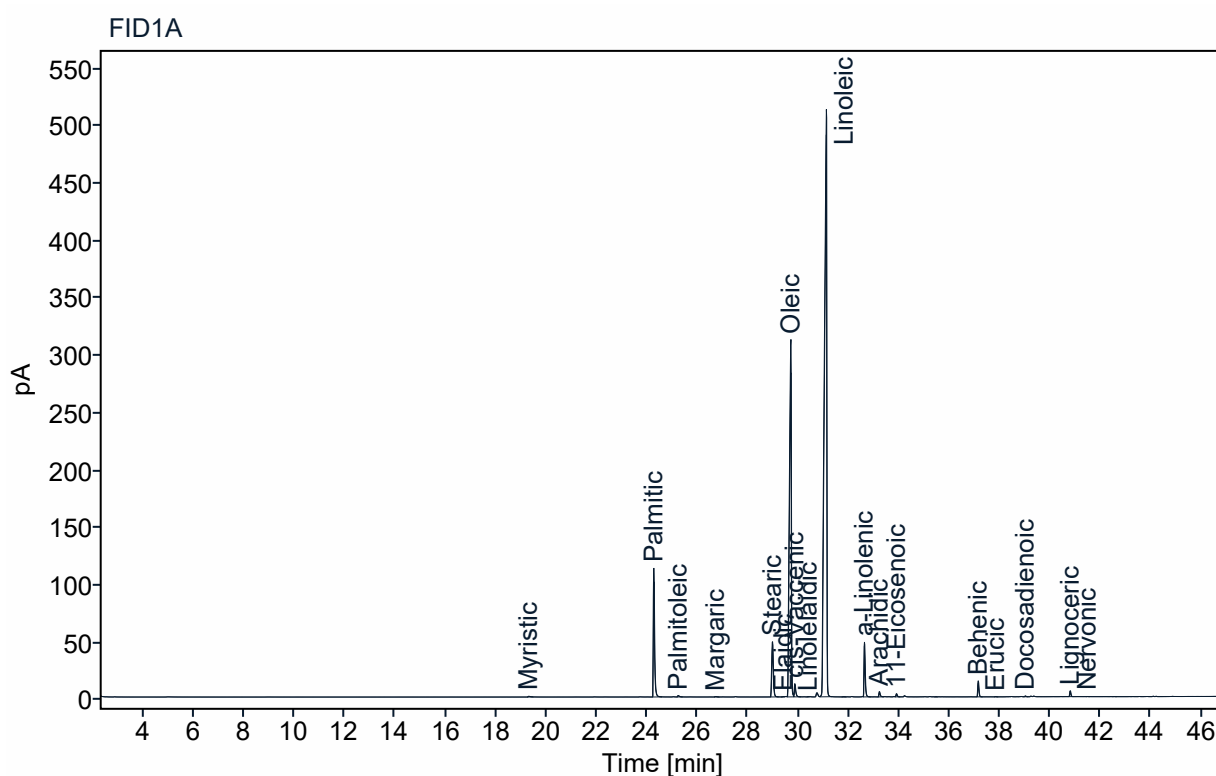
**Analysis Notes:**

- \*Assay by GC (FID detection)

**Sample name:** A25-00-0677-0040~FAMES\_GeneF209A

Acquisition Method FAMES.amx

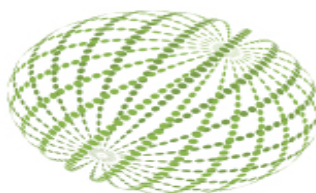
Injection: 1 of 1 Sample amount: 1.000  
Injection volume: 1.000 µL Sample type: Sample  
Dilution: 1 Multiplier: 1



Name	RT [min]	Area	Peak Area Percent
Myristic	19.298	3.5640	0.06
Palmitic	24.265	390.9852	6.59
Palmitoleic	25.232	5.6419	0.10
Margaric	26.721	1.8631	0.03
Stearic	28.975	210.7533	3.55
Elaidic	29.425	1.0454	0.02
Oleic	29.705	1628.0879	27.46
cis-Vaccenic	29.863	43.1189	0.73
Linolelaidic	30.393	0.7395	0.01
Linoleic	31.117	3355.7714	56.60
a-Linolenic	32.628	152.2806	2.57
Arachidic	33.220	16.6043	0.28

Name	RT [min]	Area	Peak Area Percent
11-Eicosenoic	33.900	9.4644	0.16
Behenic	37.145	43.4167	0.73
Erucic	37.838	0.7739	0.01
Docosadienoic	39.018	2.3376	0.04
Lignoceric	40.799	15.7669	0.27
Nervonic	41.483	0.4179	0.01

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## Raw Material Regulatory Information

### Tomato Seed Oil

#### Product identification

Trade Name:	Tomato Seed Oil
Code:	PVTOMATOSOIL
Country of Origin:	India
Custom Tariff:	1515.90

#### Chemical composition and manufacturing process

EC number:	290-375-9
CAS number:	90131-63-8
Impurities:	See table

	Residual solvents	Monomers	Heavy metals			Pesticides
Nature	None	None	As	Hg	Pb	None
Limit (ppm)			<2 ppm	<1 ppm	<10 ppm	

The reported figures are average estimates. Analyses are performed randomly and not on each batch.

#### Microbiological impurities:

Total aerobic plate count	<100CFU/g*	ISO 21149
Yeast and moulds	<10CFU/g	ISO 16212

\*Due to the inherent variability of the plate count method, the reported figures considered out of limit if >200CFU/g

#### Function (cosmetics):

Skin conditioning / emollient.

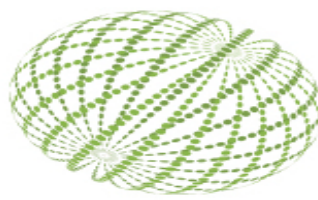
#### Manufacturing process:

Solanum Lycopersicum seeds are cold pressing.

We hereby declare that this product has not been produced using fermentation processes.

We hereby declare that this product has not been treated with ionizing radiation.

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## REACH compliance/classification

This product is compliant with EC 1907/2006 governing the registration, evaluation, authorization and restriction of chemicals (REACH) and does not contain substances above 0.1% weight of a Substance of Very High Concern (SVHC) listed in Annex XIV.

This product is also compliant with European Union Regulation (EC) 1272/2008 Classification, labelling and packaging of Substances and Mixtures (CLP regulation) under Annex XVII of REACH, which prohibits the use of carcinogenic, mutagenic or reprotoxic category 1A or 1B substances (CMR category 1A or 1B substances) in products supplied to the public.

## Regulatory information:

### Cosmetic directive compliance:

We hereby declare that in compliance with Regulation EC 1223/2009 in respect to the use in cosmetic products, this product is free of prohibited substances, neither does it contain parabens, restricted preservatives, colorants or UV filters (Annex II-VI).

### GMO:

We hereby declare that this product does not contain GMO's or GMO derived components and that no GMO derived materials or processing aids are employed in the manufacture of this product.

### Animal Testing:

We hereby declare that this product has never been tested on animals and is cruelty free.

### Vegan Statement

We hereby declare that this product contains no animal ingredients or animal by products, use none during the manufacturing process nor does the above product meet any during storage.

### Nanomaterial's:

We hereby declare that this product doesn't contain nanomaterials.

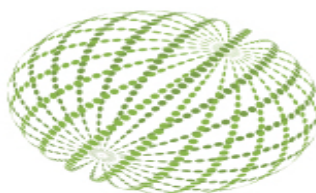
### Allergens:

This product is cosmetic grade and is not intended for human consumption, nonetheless we declare that this product:

- Is gluten free.
- Is melamine free.
- Is compliant to the limit concentration of 1,4-dioxane to 1ppm.
- Is TSE/BSE free, and dioxin free



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**Organic Status:**

This product is not organic certifiable.

**Ingredient origin:**

INCI Name	Solanum Lycopersicum Seed Oil
Name of the plant (genus – species)	Solanum Lycopersicum
Part used	Seed
Geographical origin	India
Plant cultivated or natural	Cultivated
Is it a registered vegetal species (CITES, IUCN red list etc)	No

**Global restrictions:**

Europe:	No restriction
USA (TSCA):	No restriction
Canada:	No restriction
Japan:	No restriction
China:	No restriction
Australia:	No restriction
Korea:	No restriction

**Storage:****Packaging:**

1, 5, 10, 20, 200 kg drums

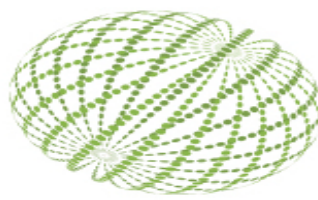
**Storage conditions:**

Keep containers tightly closed in a cool, well-ventilated place. Avoid direct sunlight. Handle and open containers with care.

Note: the reported shelf life is referred to the product stored at room temperature, in the original packaging and away from direct sunlight and heat sources. Phytoverse shall not be held liable for a shelf-life reduction if the above conditions are not adhered too.

**Incompatible product:**

Strong oxidising agents, strong bases, strong acids.



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## Microplastics Statement:

Please be advised that, to the best of our knowledge and based on the information provided by the producer, is not expected to contain microplastics. However, Phytoverse Oils Pty Ltd has not conducted any testing to confirm the absence of Microplastics. As the end use of these products is outside our control, it is the customer's responsibility to ensure that the product is fit for the purpose intended. Note: Commission Regulation (EU) 2023/2055 of 25 September 2023 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) has the following definition for synthetic polymer microplastics: Polymers that are solid and which fulfil both of the following conditions:

- a) are contained in particles and constitute at least 1 % by weight of those particles; or build a continuous surface coating on particles.
- b) at least 1 % by weight of the particles referred to in point (a) fulfil either of the following conditions:
  - i. all dimensions of the particles are equal to or less than 5 mm.
  - ii. the length of the particles is equal to or less than 15 mm and their length to diameter ratio is greater than 3.

## Per and Polyfluoroalkyl Substances (PFAS) Statement:

To the best of our knowledge, it is not expected that this product contains Per and Polyfluoroalkyl substances (PFAS). However, we have not conducted any testing to confirm the absence of PFAS in this product. As the end use of these products is outside our control, it is the customer's responsibility to ensure that the product is fit for the purpose intended.

## 1,4-Dioxane Statement:

To the best of our knowledge, it is not expected that this product contains 1,4-Dioxane. However, we have not conducted any testing to confirm the absence of 1,4-Dioxane in this product. As the end use of these products is outside our control, it is the customer's responsibility to ensure that the product is fit for the purpose intended.

## Synthetic Origin Statement:

We confirm that this product is not of synthetic origin, either in whole or in part, based on the current knowledge and information provided by the producer. This statement is provided for information purposes only. As the use of this product is outside our control, it is the customer's responsibility to ensure that the product is fit for the purpose intended.


## Biochemical Statement:

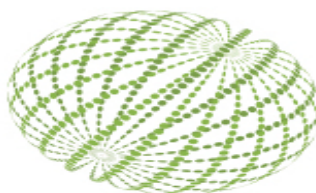
We confirm that this product by definition is not a biochemical, being from a natural origin and not chemically modified.

### Biochemical Definition

Natural origin + Chemical modification →  BIOCHEMICAL

Natural origin + Only physical processing →  Not biochemical

Synthetic + not from nature →  Not biochemical



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## Safety Data Sheet

### SECTION 1: Identification of the substance / preparation and of the company

#### 1.1 Product Identification

Trade Name:	Tomato Seed Oil
INCI name (EU – USA):	Solanum Lycopersicum Seed Oil
CAS Number:	90131-63-8
REACH registration:	Exempt from registration ex Annex V.9

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses:	Cosmetic raw material
Uses advised against:	None relevant

#### 1.3 Details of the supplier of the safety data sheet

Phytoverse  
56 Lancaster Drive  
Goonellabah NSW 2480  
Australia  
Email: [sales@phytoverse.com.au](mailto:sales@phytoverse.com.au)

#### 1.4 Emergency Telephone numbers (24h/24h) – Institutional Centres

AUSTRALIA – Poisons Information Centre 13 11 26  
USA – Poison Control Centre 1-800-222-1222  
GERMANY – Federal Institute for Risk Assessment  
ITALY – National Institute of Health  
UNITED KINGDOM – National Poison Information Services 0845 46 47  
OTHER COUNTRIES – Please contact relevant government services

### SECTION 2: Hazards Identification

#### 2.1 Classification of the substances or mixture

##### 2.1.1 Classification according to Regulation (EC) No 1272/2008

Substance not classified as hazardous

##### 2.1.2 Classification according to Directive 67/548/EEC

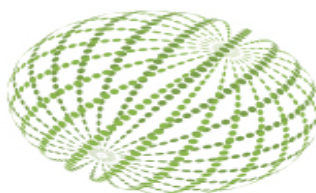
Substance not classified as dangerous

#### 2.2 Label Elements

Label not required according to Regulation (EC) No 1272/2008 (not classified substance).

#### 2.3 Other Hazards

There are no hazards that should be specifically mentioned. The product, under the intended conditions of use, poses no risk to users. However, the repeated and prolonged contact, especially if accompanied by poor personal hygiene, can cause skin redness, irritation and contact dermatitis.



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## SECTION 3: Composition / Information on ingredients

Ingredient/s not classified according to Regulation (EC) No 1272/2008 (CLP)

Chemical Name	CAS Number	Weight (%)
Solanum Lycopersicum Seed Oil	90131-63-8	100

## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures

**General information:** Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

**Inhalation:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

**Ingestion:** Call a physician or poison control centre immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

**Skin Contact:** Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.

**Eyes contact:** Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.

### 4.2 Most important symptoms and effects, both acute and delayed.

Direct contact with eyes may cause temporary irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed.

Not available.

## SECTION 5: Firefighting Measures

### 5.1 Extinguishing Media

**Suitable media:** In case of fire, use water spray (fog), alcohol resistant foam, dry chemical, or CO<sub>2</sub>

**Unsuitable media:** Direct water jet.

### 5.2 Special hazards arising from the substance or mixture

Fire may produce irritating, corrosive and/or toxic gases.

### 5.3 Advice for fire-fighters (protective equipment and precautions, instructions, general fire hazards)

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Use water spray to cool unopened containers.

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

## SECTION 6: Accidental Release Measures

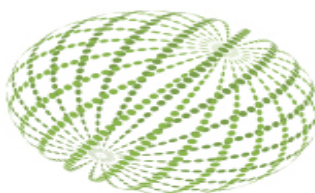
### 6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor.

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

### 6.2 Environmental precautions

Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.



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## 6.3 Methods and material for containment and cleaning up

Collect and dispose of spillage as indicated in section 13 of the SDS.

Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Store in a cool, well-ventilated area.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1 Control Parameters

Occupational exposure limits: This substance has no PEL, TLV, or other recommended exposure limit.

Biological limit values: No biological exposure limits noted for the ingredient(s).

### 8.2 Exposure controls

**Engineering controls:** Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

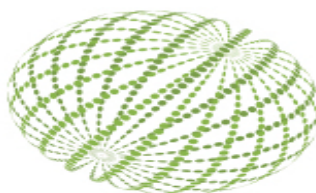
**Skin/Hand protection:** Chemical resistant gloves.

**Other:** Wear suitable protective clothing

**Respiratory protection:** Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided.

**Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.



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## SECTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical State:	Liquid
Colour:	Yellow orange red
Melting point/freezing point:	Unknown
Flash Point:	>250°C (closed cup)
Relative Density:	0.915 – 0.925 (20°C)
Water solubility:	insoluble
Explosive properties:	Not explosive
Oxidising properties:	Not oxidising

### 9.2 Other Information

Not available

## SECTION 10: Stability and Reactivity

### 10.1 Reactivity

Stable under recommended storage conditions and normal usage conditions

### 10.2 Chemical Stability

Stable under recommended storage conditions and normal usage conditions

### 10.3 Possibility of Hazardous Reactions

None known under recommended storage conditions and normal usage conditions

### 10.4 Conditions to Avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### 10.5 Incompatible Materials

Strong oxidizing agents.

### 10.6 Hazardous Decomposition Products

No hazardous decomposition products if stored and handled as indicated.

## SECTION 11: Toxicological Information

### 11.1 Information on likely routes of exposure

Ingestion: Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics: Direct contact with eyes may cause temporary irritation.

### 11.2 Information on toxicological effects

The product is not classified as hazardous for human health. No toxicological effects are to be mentioned.

## SECTION 12: Ecological Information

### 12.1 Toxicity

The product is not classified as hazardous for the environment. However, use according to good working practice and do not release it to the environment.

### 12.2 Persistence and Degradability

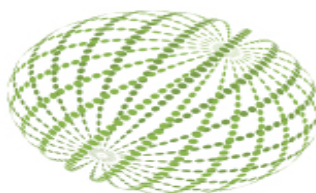
No data is available on the degradability of this substance.

### 12.3 Bio accumulative Potential

No data available

### 12.4 Mobility in Soil

No data available



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## 12.5 Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal Considerations

- 13.1 Disposal instructions:** Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations
- Local disposal regulations:** Dispose in accordance with all applicable regulations.
- Hazardous waste code:** Not established.
- Waste from residues / unused products:** Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal instructions).
- Contaminated packaging:** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport Information

Not dangerous goods according to transport legislation. Not classified dangerous as per IATA/ICAO guidelines.

## SECTION 15: Regulatory Information

### 15.1 Safety, Health and Environmental Regulations / Legislation specific for the substance or mixture

Nonrelevant, exempt from registration.

## SECTION 16: Other Information

This Safety Data Sheet (SDS) has been drawn up in accordance with the provisions of Regulation (EU) 453/2010, Annex I, for the sole sake of clarity and schematization. This SDS cancels and supersedes any previous revision.

The above information is believed to be correct but does not purport to be inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions. It does not represent any guarantee of the properties of the product. Phytoverse shall not be held liable for any damage resulting from handling or from contact with the above product.