

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Vitamin E (dl-alpha tocopheryl acetate)

Creation date: 15.12.2023, Revision: 15.12.2023, Version: Unpublished version

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name

Vitamin E (dl-alpha tocopheryl acetate)

Product code

[AL00041]

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

Relevant identified uses

No information.

Uses advised against

No information.

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

Supplier

Farmadria DOO  
Heroja Pinkija 44  
26300 Vršac, Serbia  
+381695565029  
info@avenalab.com

#### 1.4 Emergency Telephone Number

Emergency

112

Supplier

+381695565029

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

According to the regulation, the chemical is not classified as hazardous.

#### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Not subject to labelling according to Regulation (EC) 1272/2008.

#### 2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

No information.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

For mixtures see 3.2.

#### 3.2 Mixtures

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Name	CAS EC Index Reach	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substances
Tocopheryl Acetate	7695-91-2 231-710-0 -	95-100	/	/	/

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

##### Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

##### Following skin contact

Wash affected skin areas immediately with plenty of water and soap. If symptoms develop and persist, seek medical attention.

##### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

##### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. In case of doubt or if feeling unwell seek medical help. Show the physician the safety data sheet or label.

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

##### Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

##### Following skin contact

Contact with skin may cause irritation (redness, itching).

##### Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

##### Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

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

Treat symptomatically.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### Unsuitable extinguishing media

Full water jet.

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

##### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

#### 5.3 Advice for firefighters

##### Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

##### Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

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Additional information  
No information.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel

Protective equipment  
No information.

Precautionary measures  
Ensure adequate ventilation.

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective equipment.

#### 6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

#### 6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Ventilate the premises. Clean contaminated area with plenty of water.

Other information

No information.

#### 6.4 Reference to other sections

See also sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes.

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

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

Packaging materials

No information.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

Storage class

No information.

Further information on storage conditions

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No information.

### 7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Occupational Exposure limit values

No information.

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

No information.

PNEC values

For product

No information.

For components

No information.

### 8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

No requirements under normal use conditions. If there is risk of splashing into eyes, wear safety glasses with side shields (BS EN ISO 16321-1:2022).

Hand protection

No requirements under normal use conditions. In case of prolonged exposure, wear protective gloves (BS EN ISO 374).

Appropriate materials

Skin protection

No requirements under normal use conditions. With excessive exposure wear protective working clothing (overalls and boots). Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022).

Respiratory protection

Not needed under normal use and adequate ventilation.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

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Organisational measures to prevent exposure  
 No information.

Technical measures to prevent exposure  
 Do not allow product to reach drains, sewage systems or ground water.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Physical state

liquid - viscous liquid

Colour

No data.

Odour

No data.

Important health, safety and environmental information

Odour threshold	No information.
Melting point/Freezing point	-27.5 °C
Boiling point or initial boiling point and boiling range	224 °C at 0.4 hPa
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility	No information.
Partition coefficient	No information.
Vapour pressure	No information.
Density and/or relative density	No information.
Relative vapour density	No information.
Particle characteristics	No information.

#### 9.2 Other information

Explosive properties	No information.
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### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

No information.

#### 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

#### 10.3 Possibility of hazardous reactions

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No information.

10.4 Conditions to avoid  
 No information.

10.5 Incompatible materials  
 Strong oxidizing agents

10.6 Hazardous decomposition products  
 Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

For components

Name	Exposure route	Type	Species	Time	value	Method	Remark
Tocopheryl Acetate	oral	LD <sub>50</sub>	rat	/	> 10000 mg/kg	BASF	/
Tocopheryl Acetate	dermal	LD <sub>50</sub>	rat	/	> 3000 mg/kg	Equivalent OECD 402	/

Additional information

The product is not classified as acutely toxic.

(b) Skin corrosion/irritation

For components

Name	Species	Time	result	Method	Remark
Tocopheryl Acetate	rabbit	/	No irritant effect.	OECD 404	/

Additional information

The product is not classified as irritating to skin and eyes.

(c) Serious eye damage/irritation

For product

Species	Time	result	Method	Remark
/	/	No eye irritation.	/	/

For components

Name	Exposure route	Species	Time	result	Method	Remark
Tocopheryl Acetate	/	rabbit	/	No irritant effect.	OECD 405	/

(d) Respiratory or skin sensitisation

For components

Name	Exposure route	Species	Time	result	Method	Remark
Tocopheryl Acetate	-	guinea pig	/	Non sensitising.	photo-allergy test	/

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**Additional information**

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

For components

Name	Type	Species	Time	result	Method	Remark
Tocopheryl Acetate	/	Bacteria	/	Negative.	/	/
Tocopheryl Acetate	/	Mammals	/	Negative.	/	/

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

No information.

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

### 11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Acute (short-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
Tocopheryl Acetate	LC <sub>50</sub>	> 11 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203, static	/
Tocopheryl Acetate	EC <sub>50</sub>	> 20.6 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202, part 1, static	/

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Name	Type	value	Exposure time	Species	organism	Method	Remark
Tocopheryl Acetate	EC <sub>50</sub>	> 27.8 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201, growth rate, static	/
Tocopheryl Acetate	EC <sub>20</sub>	> 927 mg/L	30 min	microorganisms	Activated sludge	DIN EN ISO 8192, aquatic	The details of the toxic effect relate to the nominal concentration.

Chronic (long-term) toxicity

For components

Name	Type	value	Exposure time	Species	organism	Method	Remark
Tocopheryl Acetate	NOEC	> 100 mg/l	28 days	fish	<i>Oncorhynchus mykiss</i>	OECD 215	semi-static system

### 12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

For components

Name	Environment	Type / Method	Half Time	Evaluation	Method	Remark
Tocopheryl Acetate	water	hydrolysis	326 days	poor	calculated value	pH = 7; 25°C; t <sub>1/2</sub>

Biodegradation

For components

Name	Type	Rate	Time	Evaluation	Method	Remark
Tocopheryl Acetate	BOD (% ThOD)	30 - 40 %	28 days	not readily biodegradable	OECD 301 F; ISO 9408; 92/69/EEC, C.4-D	aerobic, activated sludge, domestic

### 12.3 Bioaccumulative potential

Partition coefficient

No information.

Bioconcentration factor (BCF)

No information.

### 12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

### 12.5 Results of PBT and vPvB assessment

No evaluation.

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### 12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

### 12.7 Other adverse effects

No information.

### 12.8 Additional information

For product

Product is not classified as dangerous for environment. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Dispose the product to an authorised collector/remover of waste/company performing waste recovery.

Waste codes / waste designations according to LoW

No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

## SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
<b>14.1 UN number or ID number</b>			
Not dangerous according to transport regulations.			
<b>14.2 UN proper shipping name</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.3 Transport hazard class(es)</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.4 Packing group</b>			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
<b>14.5 Environmental hazards</b>			
NO	NO	NO	NO
<b>14.6 Special precautions for user</b>			

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ADR/RID	IMDG	IATA	ADN
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			
	Not given/not applicable		

### SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)  
 not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents  
 No information.

Special instructions  
 No information.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### SECTION 16: OTHER INFORMATION

Indication of changes  
 No information.

Key literature references and sources for data  
 No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

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EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

No information.