

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Beta Carotene

Creation date: 03.12.2023, Revision: 13.03.2024, Version: 2.0

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

#### 1.1 Product identifier

Product name  
Beta Carotene

Product code  
[AL00014]

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

Relevant identified uses  
Raw material for cosmetic products.

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 |
|-----------------------------------|---------------------|-----|----------------------------------------------------------------|-------------------------------|----------------------|
| Daucus Carota Sativa Root Extract | 7235-40-7<br>-<br>- | 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

No information.

##### 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. Avoid breathing dust. 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  
No information.

For cleaning up  
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  
Prevent dust formation.

Measures to protect the environment  
Avoid release to the environment.

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. 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 temperature  
No information.

Storage class  
No information.

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Further information on storage conditions  
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 dust.

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 a risk of eye contact use safety glasses.

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

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No information.

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

Important health, safety and environmental information

|                                                          |                 |
|----------------------------------------------------------|-----------------|
| Physical state                                           | solid           |
| Shape                                                    | powder          |
| Colour                                                   | orange yellow   |
| Odour                                                    | characteristic  |
| Odour threshold                                          | No information. |
| Melting/freezing point or softening point                | No information. |
| Boiling point or initial boiling point and boiling range | No information. |
| Flammability (solid, gas)                                | No information. |
| Explosion limits (vol%)                                  | 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 n-octanol/water (log value)        | No information. |
| Vapour pressure                                          | No information. |
| Density / weight                                         | No information. |
| Relative vapour/gas density                              | No information. |
| Particle characteristics                                 | No information. |

#### 9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

No information.

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

No information.

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### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

No information.

### 10.4 Conditions to avoid

No information.

### 10.5 Incompatible materials

Moisture.

### 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

No information.

#### Additional information

The product is not classified as acutely toxic.

#### (b) Skin corrosion/irritation

No information.

#### Additional information

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

#### (c) Serious eye damage/irritation

No information.

#### (d) Respiratory or skin sensitisation

No information.

#### Additional information

The product is not classified as sensitising.

#### (e) (Germ cell) mutagenicity

No information.

#### (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.

#### Symptoms related to the physical, chemical and toxicological characteristics

No information.

#### Interactive effects

No information.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

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Other information

No information.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Acute (short-term) toxicity

No information.

Chronic (long-term) toxicity

No information.

#### 12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

No information.

#### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

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.

#### 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.

### 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

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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                                               |
|--------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| 14.1 UN number or ID number                                  |                                                   |                                                   |                                                   |
| Not dangerous according to transport regulations.            | Not dangerous according to transport regulations. | Not dangerous according to transport regulations. | Not dangerous according to transport regulations. |
| 14.2 UN proper shipping name                                 |                                                   |                                                   |                                                   |
| Not given/not applicable                                     | Not given/not applicable                          | Not given/not applicable                          | Not given/not applicable                          |
| 14.3 Transport hazard class(es)                              |                                                   |                                                   |                                                   |
| Not given/not applicable                                     | Not given/not applicable                          | Not given/not applicable                          | Not given/not applicable                          |
| 14.4 Packing group                                           |                                                   |                                                   |                                                   |
| Not given/not applicable                                     | Not given/not applicable                          | Not given/not applicable                          | Not given/not applicable                          |
| 14.5 Environmental hazards                                   |                                                   |                                                   |                                                   |
| NO                                                           | NO                                                | NO                                                | NO                                                |
| 14.6 Special precautions for user                            |                                                   |                                                   |                                                   |
| Limited quantities<br>Not given/not applicable               | Limited quantities<br>Not given/not applicable    |                                                   | Limited quantities<br>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

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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

1.2. Relevant identified uses of the substance or mixture and uses advised against 2.1. Classification of the substance or mixture 2.2. Label elements 2.3. Other hazards 3.1. Substances 3.2. Mixtures 4.1. Description of first aid measures 4.2. Most important symptoms and effects, both acute and delayed 4.3. Indication of any immediate medical attention and special treatment needed 5.1. Extinguishing media 5.2. Special hazards arising from the substance or mixture 5.3. Advice for firefighters 6.1. Personal precautions, protective equipment and emergency procedures 6.2. Environmental precautions 6.3. Methods and material for containment and cleaning up 6.4. Reference to other sections 7.1. Precautions for safe handling 7.2. Conditions for safe storage, including any incompatibilities 7.3. Specific end use(s) 8.1. Control parameters 8.2. Exposure controls 9.1. Information on basic physical and chemical properties 9.2. Other information 10.1. Reactivity 10.2. Chemical stability 10.3. Possibility of hazardous reactions 10.4. Conditions to avoid 10.5. Incompatible materials 10.6. Hazardous decomposition products 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 11.2. Information on other hazards 12.1. Toxicity 12.2. Persistence and degradability 12.3. Bioaccumulative potential 12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment 12.6. Endocrine disrupting properties 12.7. Other adverse effects 12.8. Additional information 13.1. Waste treatment methods 14. Transport information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture 15.2. Chemical Safety Assessment

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  
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

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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.