

**SAFETY DATA SHEET**  
**ADAGA LIFE ROOT**

According to Regulation (EC) No 1907/2006 (REACH), (EC) No 1272/2008 (CLP)

Revision Date: -  
Issue Date: 08.10.2024

Revision:  
Form No:

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

**1.1. Product identifier**

**Product name** ADAGA LIFE ROOT

**Product identifier** pH Regulator

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

**Identified uses** pH Regulator

**1.3. Details of the supplier of the safety data sheet**

**Company** ADAGA SAĞLIK KİMYA SANAYİ A.Ş.  
Altıayak Mh. 8525 Sk. No:22/F Kepez/Antalya  
Tel: 0(242) 340 00 33 [www.adaga.com.tr](http://www.adaga.com.tr)

**Contact Person** Chemical Engineer Nazlı Kılıç (nazli@nameconsulting.com.tr)

**1.4. Emergency telephone number**

Contact the national poison counseling center.

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture**

**2.1.1 Hazard Classification (EC) No 1272/2008**

This product is not classified as hazardous according to regulation (EC) 1272/2008[CLP/GHS].

Physical and chemical hazards Not classified.

Human health Not classified.

Environment Not classified.

**2.2. Label elements**

**2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP/GHS]**

-

**Signal Word:** -

**Contains:** -

**Hazard Statements:-**

**Precautionary Statements:** -

**2.1. Other hazards**

This product does not contain any PBT or vPvB substances.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

| Name                  | EC No.    | CAS No.    | Concentration % | Classification according to Regulation (EC) No 1278/2008 (CLP)   |
|-----------------------|-----------|------------|-----------------|--|
| Aqua                  | 231-791-2 | 7732-18-5  | ≤ 97,035        | Not classified   |
| Streptavidin          | -         | 9013-20-1  | ≤ 0,1           | Not classified   |
| 1-Naphthylacetic Acid | 201-705-8 | 86-87-3    | ≤ 0,2           | Eye Dam. 1 – H318<br>Aquatic Chr. 3 – H412                       |
| 3-Indoleacetic Acid   | 201-748-2 | 87-51-4    | ≤ 0,05          | Not classified   |
| 4-Aminobutanoic Acid  | 200-258-6 | 56-12-2    | ≤ 0,1           | Not classified   |
| 6-Furfurylaminopurine | 208-382-2 | 525-79-1   | ≤ 0,01          | Not classified   |
| Gibberellic Acid      | 201-001-0 | 77-06-05   | ≤ 0,005         | Acute Tox.4–H312 (Dermal)<br>Eye Irrit. 2 - H319                 |
| Acetic Acid           | 200-580-7 | 64-19-7    | ≤ 0,5           | Flam. Liq. 3 – H226<br>Skin Corr. 1B – H314<br>Eye Dam. 1 – H318 |
| Amino Acid            | -         | 65072-01-7 | ≤ 2             | Skin Irrit. 2 – H315<br>Eye Irrit. 2 - H319                      |

The Full Text for all Hazard Statements are Displayed in Section 16.  
The highest concentration values were used for calculations.

#### Composition Comments

- The data shown are in accordance with the latest EC Directives.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

**Inhalation:** Not relevant. Unlikely route of exposure as the product does not contain volatile substances.

**Ingestion:** Ingestion Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

**Skin Contact:** Skin contact not relevant.

**Eye Contact:** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

**Inhalation:** No specific symptoms known.

**Ingestion:** No specific symptoms known.

**Skin contact:** No specific symptoms known.

**Eye contact:** No specific symptoms known.

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

Notes for the doctor: No specific recommendations.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

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### **Extinguishing media**

This product is not flammable. Extinguish with foam, carbon dioxide, dry powder or water fog.

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

#### **Specific hazards**

In case of fire, toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).  
May cause explosion hazard of dust.

### **5.3. Advice for firefighters**

#### **Special Fire Fighting Procedures**

Avoid breathing fire fumes. If this can be done without risk, move the container away from the fire area. If possible, intervene the fire from a protected place.

#### **Protective equipment for fire-fighters**

Self-contained breathing apparatus and full protective clothing should be worn in case of fire. Face mask, protective gloves and safety helmet should be used.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions:** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes.

### **6.2. Environmental precautions**

**Environmental precautions:** Not considered to be a significant hazard due to the small quantities used.

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

Wash off spills with plenty of water. Avoid contamination of ponds or streams with wash water. Absorb spillage with non-combustible absorbent material. Do not discharge into drains, waterways or on the ground.

### **6.4. Reference to other sections**

For personal protection, see section 8.  
See section 11 for additional information on health hazards.  
For waste disposal, see section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Do not eat, drink or smoke when using the product. Protect against direct sunlight.  
Read and follow manufacturer's recommendations. Avoid contact with skin and eyes.

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

Stable at normal ambient temperatures.  
Protect from light, including direct sunrays.

### **7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Exposure guidelines do not apply when the product is used as intended in a home environment.

#### *DNEL Values*

##### *Acetic Acid*

- (DNEL) 25 mg/m<sup>3</sup> Local Effects Workers with Long-Term Inhalation Exposure
- (DNEL) 25 mg/m<sup>3</sup> Local Effects Workers with Acute/Short Term Inhalation Exposure
- (DNEL) 25 mg/m<sup>3</sup> Local Effects General Population Long-Term Inhalation Exposure
- (DNEL) 25 mg/m<sup>3</sup> Local Effects General Population Acute/Short Term Inhalation Exposure

#### *PNEC Values*

##### *Acetic Acid*

- Hazard for Aquatic Organisms
- Freshwater 3.058 mg/L (4)
- Intermittent releases (freshwater) 30.58 mg/L (4)
- Marine water 305.8 µg/L (4)
- Intermittent releases (marine water) -
- Sewage treatment plant (STP) 85 mg/L (4)
- Sediment (freshwater) 11.36 mg/kg sediment dw (4)
- Sediment (marine water) 1.136 mg/kg sediment dw (4)

#### 8.2. Exposure controls



|                                 |   |
|---------------------------------|---|
| Protective equipment            |   |
| Engineering control             | : Not relevant.   |
| Respiratory equipment           | : No personal protective respiratory equipment is normally required. Respiratory protection in case of vapor/aerosol release. Particulate filter EN 143 or 149, Type P2 or FFP2, medium filtering capacity (solid and liquid particles of less toxic substances). |
| Hand protection                 | : Protective in case of prolonged or repeated contact wear gloves. Protective gloves conforming to EN 374.  |
| Eye protection                  | : Close-fitting safety glasses (closed goggles) (Class EN 166) and face mask.   |
| Other skin and body protection  | : Wear protective clothing such as rubber or neoprene gloves and a long sleeved T- shirt  |
| Hygiene measures                | : Eating, drinking, smoking and inhaling any substance in the workplace it is forbidden. Use in accordance with good industrial hygiene and safety practices. Personal protection equipment must be free of hazardous and harmful substances before reuse.        |
| Environmental Exposure Controls | : Not relevant.   |

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                      |                   |
|----------------------|-------------------|
| <b>Appearance</b>    | Liquid            |
| <b>Colour</b>        | Light Brown       |
| <b>Odour</b>         | Odorless          |
| <b>Solubility</b>    | No data available |
| <b>Boiling Point</b> | No data available |
| <b>Melting point</b> | No data available |
| <b>pH-Value</b>      | No data available |
| <b>Flash Point</b>   | No data available |
| <b>Viscosity</b>     | No data available |

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|  |                               |
|--|-------------------------------|
| <b>Decomposition temperature</b>                   | No data available             |
| <b>Density</b>                                     | 0,90 – 1,10 g/cm <sup>3</sup> |
| <b>Partition Coefficient<br/>(N-Octanol/Water)</b> | No data available             |

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

### 9.2. Other information

No information required.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

#### **Hazardous Polymerisation**

Stable under suitable storage conditions.

### 10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

### 10.5. Incompatible materials

There are no known data based on the information given.

### 10.6. Hazardous decomposition products

Does not decompose when used and stored as recommended.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute Toxicity

##### *4-Aminobutanoic Acid*

Oral

LD50 12 680 mg/kg bw (mouse) [1]

##### *Acetic Acid*

Oral route:

No adverse effect observed LD50 3 310 mg/kg bw

Inhalation route:

Adverse effect observed LC50 40 mg/L air

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### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

##### *4-Aminobutanoic Acid*

Short-term toxicity to aquatic invertebrates  
NOEC (48 h) 200 mg/L [1]

##### *Acetic Acid*

Short-term toxicity to fish  
LC50 (4 days) 300.82 - 1 000 mg/L [2]  
NOEC (4 days) 300.82 - 1 000 mg/L [2]  
Short-term toxicity to aquatic invertebrates  
EC50 (48 h) 300.82 - 1 000 mg/L [2]

#### 12.2. Persistence and degradability

No data available.

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

##### **Mobility:**

Insoluble in water.

#### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

#### 12.6. Other adverse effects

**Other adverse effects:** None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Do not allow runoff to sewer, waterway or ground. Dispose of waste and residues in accordance with local authority requirements. Contact specialist disposal companies. Environmental manager must be informed of all major spillages.

### SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)

#### 14.1. UN number

-

#### 14.2. UN proper shipping name

-

#### 14.3. Transport hazard class(es)

ADR Class: -  
IMDG Class: -  
ICAO/IATA: -

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### 14.4 Packing group

-

### 14.5. Environmental hazards

ADR/RID/ADN Packing group: -  
IMDG Packing group: -  
ICAO-IATA Packing group: -

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### 14.8. Environmental damages

Environmentally Dangerous Substance/Marine Polluting Substance: None

### 14.9. Special precautions for the user

Packing instruction: -  
Hazard number: -  
Tunnel Restriction Code: -

## SECTION 15: REGULATORY INFORMATION

This format refers to MSDS requirements American National Standard Institute(ANSI) and International Standard Organization (ISO)

## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.(ADR 2015)  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
IATA: International Air Transport Association.  
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
IMDG: International Maritime Dangerous Goods.  
CAS: Chemical Abstracts Service.  
ATE: Acute Toxicity Estimate.  
PBT: Persistent, Bioaccumulative and Toxic substance.  
vPvB: Very Persistent and Very Bioaccumulative.  
This product is classified according to EU Directive GHS/CLP.  
This safety datasheet complies with the requirements of Regulation (EC) No.1907/2006 (REACH).

### Revision Comments: -

#### Hazard Statements All

**H226** Flammable liquid and vapour.  
**H312** It is harmful in contact with skin.  
**H314** Causes severe skin burns and eye damage.  
**H315** Causes skin irritation.  
**H318** Causes serious eye damage.  
**H319** Causes serious eye irritation.  
**H412** Harmful to aquatic life with long lasting effects.



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## ***Prepared the Safety Data Sheet***

Chemical Engineer Nazlı Kılıç / nazli@nameconsulting.com.tr  
Certificate Number: KDU01.32.02 Certificate Date: 20 May 2023

## Disclaimer

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