

# SAFETY DATA SHEET

## ADAGA NANOCOP

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

Revision Date: -  
Issue Date: 26.09.2024

Revision:  
Form No:

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

#### 1.1. Product identifier

**Product name** ADAGA NANOCOP  
**Product identifier** Fertilizer

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

**Identified uses** Fertilizer

#### 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	Eye Dam. 1 - H318
Environment	Not classified.

#### 2.2. Label elements

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



GHS05

**Signal Word:** Danger

**Contains:** Calcium Nitrate (Ca), Nitrogen (Nitrate).

**Hazard Statements:** Copper Sulphate (Water Soluble)

**H318** Causes serious eye damage.

#### Precautionary Statements:

**P101** If medical advice is needed, keep the container or label.

**P102** Keep out of reach of children.

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**P103** Read the label before use.

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. If you have contact lenses, remove them if easy. Continue rinsing.

**P501** Dispose of contents/container according to local regulations.

#### 2.1. Other hazards

This product does not contain any PBT or vPvB substances.

### 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	≤ 96	Not classified
Copper (Cu)(Water Soluble)	215-269-1	1317-38-0	≤ 4	Acute Tox. 4 - H302 Eye Dam. 1 - H318 Aqua. Tox. 1- H400 Aquatic Chr. 1 - H410

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** : IF INHALED: Remove victim to fresh air and keep in a position comfortable for breathing.

**Ingestion** : IF SWALLOWED: Rinse mouth. DO NOT try to vomit.

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

**Eye contact** : IF IN EYE CONTACT: Rinse carefully with water for a few minutes. Remove contact lenses, if present and easy to perform. Continue rinsing.

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

**Inhalation** : Dizziness

**Ingestion** : Nausea, vomiting.

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

**Eye contact** : Causes serious eye damage.

#### 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

##### Extinguishing media

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

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### 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.

## 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**

#### **Copper Sulphate (Water Soluble)**

(DNEL) 1 mg/m<sup>3</sup> Systemic Effects Workers with Long-Term Inhalation Exposure

(DNEL) 1 mg/m<sup>3</sup> Local Effects Workers with Long-Term Inhalation Exposure

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(DNEL) 137 mg/m<sup>3</sup> Systemic Effects Workers with Long- term Dermal Exposure  
(DNEL) 41 µg/kg Systemic Effects General Population with Long-Term Oral Exposure  
(DNEL) 82 µg/kg Systemic Effects General Population with Acute /short term. Oral Exposure

### 8.2. Exposure controls



Protective equipment	: Not relevant.
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>	Translucent liquid
<b>Odour</b>	Specific
<b>Solubility</b>	Soluble
<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
<b>Decomposition temperature</b>	No data available
<b>Density</b>	No data available
<b>Partition Coefficient (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***

**Copper Sulphate (Water Soluble)**

Oral

LD50 2 500 mg/kg bw (rat) [1]

Dermal

LD50 2 000 mg/kg bw (rat) [1]

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Copper Sulphate (Water Soluble)**

Short-term toxicity to fish

LC50 (4 days) 2.8 - 9 150 µg/L [346]

LC50 (48 h) 5.9 - 30.2 µg/L [11]

NOEC (4 days) 12.2 - 29.2 µg/L [4]

Short-term toxicity to aquatic invertebrates

EC50 (4 days) 5 - 42 µg/L [2]

EC50 (48 h) 1 - 1 213 µg/L [237]

EC50 (24 h) 12 - 23.8 µg/L [2]

LC50 (48 h) 500 - 302 000 ng/L [136]

**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**

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### **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 covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID)

### **14.1. UN number**

Not applicable.

### **14.2. UN proper shipping name**

Not applicable.

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

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

### **14.4 Packing group**

Not applicable.

### **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  
It is a substance that is harmful to the environment

### **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).

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**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**

**H302** It is harmful if swallowed.

**H318** Causes serious eye damage.

**H400** It is very toxic to the aquatic environment.

**H410** Very toxic to aquatic life with long lasting effects.

**Prepared the Safety Data Sheet**

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Certificate Number: KDU01.32.02 Certificate Date: 20 May 2023

Disclaimer

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