

SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

Trade name: **ÖKOPOWER MAX**

Version: 1

Latest revision: -

Date of issue: 10. 09. 2025

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier:

ÖKOPOWER MAX

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

Relevant identified uses: NPK fertilizer. For residential use and professional use.

Uses advised against: application other than the above.

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

Bige Holding Kft

5000 Szolnok, Tószegi út 51.

Phone: +36 56 505 800

E-mail: titkarsag@bigeholdingkft.hu

Responsible for SDS:

Bige Holding Kft

5000 Szolnok, Tószegi út 51

Phone: +36 56 505 800

E-mail: titkarsag@bigeholdingkft.hu

1.4. Emergency telephone number

Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián út 2-6.)

Tel.: +36 80 201 199 (0-24 h, free number, can only be called from Hungary).

+36 1 476 6464 (0-24 h, can be called for a normal fee - also from abroad)

National Health Toxicological Information Service:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category: Hazard statement:

Not classified.

-

2.2. Label elements

Product identification: Trade name: **ÖKOPOWER MAX**

Hazardous components: -

GHS Pictogram: not required

Signal word: not required

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Hazard statement:

not required

Supplemental hazard information:

EUH210 Safety data sheet available on request.

Precautionary statements – General:

P102 Keep out of reach of children.

Precautionary statements – Prevention:

-

Precautionary statements – Response:

-

Precautionary statements – Storage:

-

Precautionary statements – Disposal:

-

Other liabilities for labelling:

Tactile warning and child-resistant fastening: Not required.

Transport classification: see section 14.

2.3. Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006, at a concentration of 0.1% or more.

The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical description: Mixture of following substances containing non-hazardous additives.

Component(s) / Hazardous component(s):

Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Potassium chloride REACH Registr. Nr.: 01-2119539416-36	231-211-8	7447-40-7	-	-	25 - 50

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Name	EC number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Diammonium hydrogenorthophosphate REACH Registr. Nr.: 01-2119490974-22	231-987-8	7783-28-0	-	-	10 - 25
Ammonium sulphate REACH Registr. Nr.: 01-2119455044-46	231-984-1	7783-20-2	-	-	1 - 5
Ammonium dihydrogenorthophosphate REACH Registr. Nr.: 01-2119488166-29	231-764-5	7722-76-1	-	-	1 - 5
Amines, hydrogenated tallow alkyl REACH Registr. Nr.: 01-2119473799-15	262-976-6	61788-45-2	Asp. Tox. 1 Skin Irrit. 2 Eye Dam. 1 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1	H304 H315 H318 H373 (gastrointestinal tract, liver, immune system) H400 (M=10) H410 (M=10)	<0.025

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention.

Skin contact: Remove contaminated clothing and shoes. Wash skin with large amounts of water. In case of persistent irritation, get medical attention.

Eye contact: Flush eyes with plenty of water for 10-15 minutes. In case of persistent irritation, consult a doctor.

Ingestion: Rinse mouth immediately. Do not induce vomiting. Get immediately medical attention.

Protection of first-aid person: No individual specifications.

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

Contact with eyes may cause irritation.

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

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Foam, powder, carbon dioxide, water spray (fog).

Unsuitable extinguishing media:

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

On burning, carbon dioxide, carbon monoxide, nitrogen-oxides, ammonia, sulfur oxides, phosphorus oxides can be formed.

5.3. Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Wear self-contained breathing apparatus.

Further information:

Cool endangered containers by means of a sprayed water jet.

Contaminated extinguishing water must be collected, separately and must not enter into the sewerage system. Dispose of as required by the regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Adequate ventilation must be provided.

Avoid contact with skin and eyes, inhalation of dust.

6.2. Environmental precautions:

Prevent spills from entering into natural water, soil and drains by containing the liquid.

Notify relevant authority.

6.3. Methods and material for containment and cleaning up

On soil: Take up mechanically collect and place in a suitable, labeled container for reuse or disposal. Dispose of according to local regulations.

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The contaminated area should be washed with plenty of water.
On water: Soluble in water. Notify local authorities according to regulations.

6.4. Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep general measures applied for normal operations with chemicals.

Sufficient ventilation should be provided.

Avoid contact with skin and eyes, breathing of dust.

Wash hands before breaks and at end of work.

Take off contaminated clothing and wash it before reuse.

When using do not eat, drink or smoke. Avoid splashing the product.

Handling temperature: no data.

7.2. Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of chemicals.

Store in well ventilated place in tightly closed, original containers.

Keep away from food, drink and feed.

Recommended storage temperature: Store in a cool place.

7.3. Specific end use(s)

NPK fertilizer.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters: -

8.2. Exposure controls

Engineering control measures:

Adequate ventilation (general or local exhaust).

Personal protection:

(a) Eye/face protection Where eye contact is possible, wear safety glasses (EN 166).

(b) Skin protection

(i) Hand protection Chemical resistant gloves (EN 374) in case of prolonged contact.

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Note: Manufacturer's directions for use and the conditions of application should be observed.

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|----------------------------|--|
| (ii) Other | Protective clothing. |
| (c) Respiratory protection | In case of not adequate ventilation respiratory protection with a suitable filter element (Pl. P2) must be used. (EN 14387). |
| (d) Thermal hazards | No data. |

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | |
|--|-------------------|
| a) Physical state: | solid |
| b) Colour: | gray |
| c) Odour: | odorless |
| d) Melting point/freezing point: | not available |
| e) Boiling point or initial boiling point and boiling range: | not available |
| f) Flammability: | not combustible |
| g) Lower and upper explosion limit: | not explosive |
| h) Flash point: | not available |
| i) Auto-ignition temperature: | not available |
| j) Decomposition temperature: | not available |
| k) pH: | not available |
| l) Kinematic viscosity: | not applicable |
| m) Solubility | |
| Solubility in water: | partially soluble |
| Solubility in other solvents: | not available |
| n) Partition coefficient n-octanol/water: | not available |
| o) Vapour pressure at 20°C: | not available |
| p) Density and/or relative density (bulk density): | not available |
| q) Relative vapour density: | not available |
| r) Particle characteristics: | not available |

9.2. Other information

not available

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SECTION 10: Stability and reactivity

- 10.1. Reactivity: Dangerous reactivity not known.
10.2. Chemical stability: No decomposition if stored and handled properly.
10.3. Possibility of hazardous reactions: Not known.
10.4. Conditions to avoid: Heat or ignition sources, direct sunlight, moisture.
10.5. Incompatible materials: Strong oxidizing agents, strong acids, alkalis, organic substances, some metals and their alloys.
10.6. Hazardous decomposition products: No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

SECTION 11: Toxicological information

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

Acute toxicity: Based on available data, the classification criteria are not met

Components:

Diammonium hydrogenorthophosphate (CAS: 7783-28-0)

Oral:	LD ₅₀ (rat)	> 2000 mg/kg
Dermal:	LD ₅₀ (rabbit)	> 5000 mg/kg
Inhalation:	LC ₅₀ (rat)	> 5000 mg/m ³ (4 h)

Ammonium dihydrogenorthophosphate (CAS: 7722-76-1)

Oral:	LD ₅₀ (rat)	5750 mg/kg
Dermal:	LD ₅₀ (rat)	> 7940 mg/kg
Dermal:	LD ₅₀ (rabbit)	> 7940 mg/kg

Ammonium sulphate (CAS: 7783-20-2)

Oral:	LD ₅₀ (rat)	4250 mg/kg
Dermal:	LD ₅₀ (rat)	2000 mg/kg
Inhalation:	LC ₅₀ (rat)	1000 mg/l

Potassium chloride (CAS: 7747-40-7)

Oral:	LD ₅₀ (rat)	3020 mg/kg
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Amines, hydrogenated tallow alkyl (CAS: 61788-45-2)

Oral:	LD ₅₀ (rat)	5000 mg/kg	OECD 401
Dermal:	LD ₅₀ (rabbit)	2000 mg/kg	OECD 402
Inhalation:	LC ₅₀ (rat)	0.099 mg/l	OECD 403

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Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

11.2. Information on other hazards

The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

Components:

Diammonium hydrogenorthophosphate (CAS: 7783-28-0)

Fish (Onchorhynchus mykiss):	LC ₅₀	85.9 mg/L	96 h
Fish (Onchorhynchus mykiss):	LC ₅₀	24.8 – 29.4 mg/L	96 h
Crustacea:	EC ₅₀	169 mg/L	48 h
Algae:	ErC ₅₀	> 100 mg/L	
Algae:	NOEC	100 mg/L	

Ammonium dihydrogenorthophosphate (CAS: 7722-76-1)

Fish (Onchorhynchus mykiss):	LC ₅₀	> 85.9 mg/L	96 h
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Ammonium sulphate (CAS: 7783-20-2)

Fish (Brachydanio rerio):	LC ₅₀	250 mg/L	96 h
Fish (Brachydanio rerio):	LC ₅₀	480 mg/L	96 h
Crustacea:	EC ₅₀	14 mg/L	48 h

Potassium chloride (CAS: 7747-40-7)

Fish (Pimephales promelas):	LC ₅₀	880 mg/L	96 h
Crustacea (Daphnia magna and Ceriodaphnia dubia)	EC ₅₀	> 100 mg/L	72 h
Algae (Desmodus subspicatus)			

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Amines, hydrogenated tallow alkyl (CAS: 61788-45-2)

Fish (<i>Pimephales promelas</i>):	LC ₅₀	0.06 mg/L	96 h, OECD 203
Daphnia:	LC ₅₀	0.011 mg/L	48 h, OECD 202
Daphnia:	NOEC	0.013 mg/L	21 days, OECD 211
Algae:	NOEC	0.008 mg/L	96 h, OECD 201
Earthworms (<i>Eisenia fetida</i>)	LC ₅₀	>1000 mg/kg soil dry weight	14 days, OECD 222
Earthworms (<i>Eisenia fetida</i>)	NOEC	200 mg/kg soil dry weight	OECD 222

12.2. Persistence and degradability

Biodegradability: No data for the product.

Ammonium sulphate (CAS: 7783-20-2) Inherently degradable.

12.3. Bioaccumulative potential

No data for the product.

Diammonium hydrogenorthophosphate (CAS: 7783-28-0)

Bioaccumulation is not expected.

Ammonium dihydrogenorthophosphate (CAS: 7722-76-1)

Bioaccumulation is not expected.

Amines, hydrogenated tallow alkyl (CAS: 61788-45-2)

log Kow = 7 (at 25°C)

12.4. Mobility in soil

No data.

Mobility in water:

Partially soluble in water.

12.5. Results of PBT and vPvB assessment

Does not contain PBT and vPvB substances, at a concentration of 0.1% or more.

12.6. Endocrine disrupting properties

The product does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

12.7. Other adverse effects

Water hazard class (German): No data.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

Waste Identification Code: 02 01 09

Agrochemical waste other than those mentioned in 02 01 08.

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Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

Disposal must be in compliance with national and local regulations.

Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

SECTION 14: Transport information

Land transport:

Road/ Railway

ADR/RID:

Not classified.

14.1. UN number or ID number:

Not classified.

14.2. UN proper shipping name:

Not classified.

14.3. Transport hazard class(es):

Not classified.

14.4. Packing group:

Not classified.

14.5. Environmental hazards:

Not classified.

14.6. Special precautions for user:

Not classified.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Waterways:

Inland waterways/ Sea transport

ADN/IMDG:

Not apply to the product.

Air transport:

ICAO / IATA:

Not apply to the product.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.
Seveso category: not classified.

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The product contains restricted substances:

Ammonium sulphate (CAS: 7783-20-2);

Ammonium dihydrogenorthophosphate (CAS: 7722-76-1);

Diammonium hydrogenorthophosphate (CAS: 7783-28-0);

REACH Annex XVII Entry 65.

15.2. Chemical safety assessment.

Not available.

SECTION 16: Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 (CLP)

Not classified.

The full text of each relevant H- phrase and Hazard classes and cat. in Section 3.:

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Asp. Tox. 1	Aspiration hazard Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
STOT RE 2	Specific target organ toxicity – repeated exposure Category 2

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Aquatic Acute 1
Aquatic Chronic 1

Hazardous to the aquatic environment, Acute Category 1
Hazardous to the aquatic environment, Chronic Category 1

Legend:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biological Oxygen Demand
Bw	Body Weight
C&L	Classification and Labelling
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging (1272/2008/EC)
CMR	Carcinogenic, Mutagenic or Toxic for Reproduction
COD	Chemical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Chemicals Agency
Ex _c	Effective Concentration x%
Ex _d	Effective Dose x%
ELINCS	European List of Notified Chemical Substances
ErC ₅₀	EC ₅₀ in terms of reduction of growth rate;
ES	Exposure Scenario
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC _x	Lethal Concentration x%
LD _x	Lethal Dose x%
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
NOEC	No observed effect concentration
NOEL	No observed effect level
NLP	No-Longer Polymer
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

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SVHC

Substance of Very High Concern

UVCB

Substance of unknown or variable composition, complex reaction products or biological materials

VOC

Volatile organic compounds

vPvB

Very Persistent and very Bio-accumulative

Revision Indicators:

Section	Subject of change	Date	Version