



## MATERIAL SAFETY DATA SHEET (MSDS)

ECOBİGEN Agriculture Food Trade Industry Co. Ltd.

Version 1.0

Issued February 2022

"In accordance with the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014 (R.G. 13.12.2014-29204)."

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

#### 1.1. Identification of the substance/mixture and of the company/undertaking

**Product Name** AGROBİGEN® -N 22-9-9+(2 MgO) +me

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

**Material Uses** NPK Blended Fertilizer plus micronutrients

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

**Manufacturer Name** ECOBİGEN Gübre Tarım Gıda Tic. San. Ltd. Şti  
**Address** Alparslan Mah. Samsun 1.Sok. No.13 Bafra, Samsun, TURKEY  
**Telephone** +90 362 365 95 82  
**Web Address** www.ecobigen.com.tr  
**E-Mail Address** info@ecobigen.com.tr

#### 1.4. Emergency Information

**Contact Person** Rıdvan KIZILKAYA  
**Contact Telephone** +90 537 620 32 34

### Section 2: HAZARD IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Oxidizing Solids Category 3; H272  
Skin Corrosion/Irritation Category 2; H315  
Eye Damage/Irritation Category 1; H318  
Hazardous To The Aquatic Environment - Long-Term Hazard Category 2; H411

#### 2.2 Label elements

Hazard pictograms (SEA)



Signal word (SEA)

Danger, Warning

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### Hazard statements (SEA):

- H272 May intensify fire; oxidizer.  
 H318 Causes serious eye damage.

### Precautionary statements (SEA):

- P210 Keep away from heat.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/eye protection/face protection.  
 P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P370 + P378 In case of fire: Use carbon dioxide foam, water spray or dry chemical extinguishers. to extinguish.  
 P501 Dispose of contents/container in accordance with local/ regional/ national/ international regulations (to be specified).

### 2.3 Other hazards

Other effects are mentioned on Section 16.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Composition/information on ingredients

Not available

### 3.2 Information on Ingredients

Name	Chemical formula	EC No	CAS No
Urea	CO(NH <sub>2</sub> ) <sub>2</sub>	200-315-5	57-13-6
Monoammonium phosphate	(NH <sub>4</sub> )H <sub>2</sub> PO <sub>4</sub>	231-764-5	7722-76-1
Potassium nitrate	KNO <sub>3</sub>	231-818-8	7757-79-1
Magnesium sulfate	MgSO <sub>4</sub>	231-298-2	7487-88-9
Disodium octaborate tetrahydrate	Na <sub>2</sub> B <sub>8</sub> O <sub>13</sub> ·4H <sub>2</sub> O	234-541-0	12280-03-4
Ferrous sulfate	FeSO <sub>4</sub>	231-753-5	7782-63-0
Manganese sulfate	MnSO <sub>4</sub>	232-089-9	7785-87-7
Zinc sulfate	ZnSO <sub>4</sub>	231-793-3	7446-20-0

See toxicological information (Section 16)

## Section 4: FIRST AID MEASURES

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<b>In case of eye contact</b>	Rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If need get medical advice/attention.
<b>In case of skin contact</b>	Clean skin with soap and plenty of water.
<b>If swallowed</b>	Rinse mouth with water. Call a Poison Center or get medical advice/attention.
<b>If inhaled</b>	Remove person to fresh air and keep comfortable for breathing.

### Section 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Carbon dioxide foam, water spray or dry chemical extinguishers.

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

Avoid contact with other combustible materials.

#### 5.3. Advice for firefighters

Use NIOSH-approved respirator including the full face and eye protection and wear rubber gloves.

### Section 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipments which are mentioned on Section 8.

#### 6.2. Environmental precautions

Keep out off overground and underground waters.

#### 6.3. Methods and materials for containment and cleaning up

Absorb spills with inert material and put chemicals into waste containers.

#### 6.4. Reference to other sections

Reference to other sections are mentioned on Section 13.

### Section 7: HANDLING AND STORAGE



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### 7.1. Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. Store in a cool and dry place. It should

not be exposed to direct sunlight. Keep away from extreme heat. Avoid formation of dust and aerosols. Avoid exposure

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

Keep away from heat/sparks/open flames/hot surfaces. Store in tightly closed containers.

Store in a cool and dry place away from nonconcurrent materials. Keep container tightly closed in a dry and well-ventilated place.

### 7.3. Specific end use(s)

There is not use of the product other than that specified in Section 1.2

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No data available.

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available.

#### 8.2.2. Personal protective equipment



### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

### Respiratory protection

Wear respiratory protective mask (type N100 (US) or type P3 (EN 143) during operation.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance

: Solid



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Colour	: White	
Odour	: Odourless	
pH (20°C, 1:10)	: 4-5	
Melting point/freezing point	: Not available	
Flash point	: Not available	
Initial boiling point	: Not available	
Solubility	: Soluble in water, acids	
Viscosity	: Not available	
Bulk density	: 450-550 kg/m <sup>3</sup>	
Plant Nutrient Contents	: Nitrogen (N)	19 %
	Phosphorus Pentaoxide (P2O5)	9 %
	Potassium Oxide (K2O)	9 %
	Magnesium Oxide	2 %
	Boron (B)	0.1 %
	Iron (Fe)	0.4 %
	Manganese (Mn)	0.4 %
	Zinc (Zn)	0.4 %
	Chlorine	<0.1 %

### 9.2. Other safety information

Other information is not available.

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Not available.

### 10.2. Chemical stability

The product is stable under normal conditions during transportation, storage and use.

### 10.3. Possibility of hazardous reactions

Not available.

### 10.4. Conditions to avoid

Exposure to moisture.

### 10.5. Incompatible materials

Strong reducing agents, strong acids, strong bases.

### 10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: Carbon oxides, oxides of potassium, Borane/boron oxides

## Section 11: TOXICOLOGICAL INFORMATION



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### 11.1 Information on toxicological effects

Acute toxicity	: LD 50 >2000 mg/kg Oral – Rate (OECD - 401)
Skin corrosion/irritation	: Prolonged exposure may cause skin irritation.
Serious eye damage/irritation	: May cause eye irritation on direct contact.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## Section 12: ECOLOGICAL INFORMATION

It has low aquatic toxicity to aquatic organisms. Does not meet the classification criteria.

TLM, 96 hours	: 10-1000 ppm
LC <sub>50</sub> , Fish, 96 hours	: 6000 mg/l ( <i>Sakmo gairdneri</i> )
EC <sub>50</sub> , Daphnia	: 83 mg/l ( <i>Daphnia magna</i> )

### 12.1 Bioaccumulative potential

No data available.

### 12.2 Mobility in soil

No data available.

### 12.3 Results of PBT and vPvB assessment

No data available.

### 12.4 Other adverse effects

Another negative effect is not expected.

## Section 13: DISPOSAL CONSIDERATION

### 13.1. Disposal considerations

- Dispose of waste in accordance with national legislation.
- Dispose of package in accordance with national legislation.

## Section 14: TRANSPORT INFORMATION

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RID: 1479 Oxidizing Solid, N.O.S.  
 ADR: 1479 Oxidizing Solid, N.O.S.  
 ADN:-  
 IMDG Code: 1479 Oxidizing Solid, N.O.S.  
 ICAO-TI:-  
 IATA-DGR 1479 Oxidizing Solid, N.O.S.

### 14.1 UN number

1479

### 14.2 UN proper shipping name

Oxidizing Solid, B. B. B..

### 14.3. Transport hazard class(es)

5.1; O2

### 14.4. Packaging group

ADR/RID/ADN	III
IMDG	III
ICAO	III



### 14.5. Environmental hazards

Toxic to aquatic life with long lasting effects.

### 14.6. Special precautions for user

Limited quantity	5 kg
EMS	F-H, S-Q
Emergency code	1Z
Hazard No. (ADR)	50
Tunnel restriction code	(E)

### 14.7. MARPOL 73/78 Annex II and IBC Code

No data available

## Section 15: REGULATORY INFORMATION

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

Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014

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Globally Harmonized System Of Classification And Labelling Of Chemicals (Ghs),  
 ST/SG/AC.10/30/Rev.4

Regulation on Restriction and Prohibition of Hazardous Substances and Mixtures published  
 in the Official Journal numbered 27092 on December 26, 2008

### Section 16: OTHER INFORMATION

Signal word (SEA) : Danger, Warning



Hazard statements (SEA):

- H272: May intensify fire; oxidizer.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H414: Toxic to aquatic life with long lasting effects.
- GHS Code: GHS03, GHS05, GHS09

Precautionary statements (SEA):

Prevention

- P210: Keep away from heat.
- P220: Keep/Store away from clothing/.../combustible materials.
- P221: Take any precaution to avoid mixing with combustibles/...
- P264: Wash with plenty of water thoroughly after handling.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/eye protection/face protection.

Response

- P302 + P352: IF ON SKIN: Wash with plenty water.
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

- P310: Immediately call a POISON CENTER/doctor.
- P321: Specific treatment (see ... on this label).
- P332 + P313: If skin irritation occurs: Get medical advice/attention.
- P362 + P364: Take off contaminated clothing and wash it before reuse.
- P370 + P378: In case of fire: Use carbon dioxide foam, water spray or dry chemical extinguishers. to extinguish.
- P391: Collect spillage.

Disposal



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P501: Dispose of contents/container in accordance with local/regional/ national/ international regulations (to be specified).

### Appendix

ADR	European Agreement on the International Carriage of Dangerous Goods by Road.
ADN	European Agreement on the International Carriage of Dangerous Goods by Inland Waterways
RID	European Agreement on the International Carriage of Dangerous Goods by Rail
EC No	European Community number
CAS	Chemical Theories Service
LD <sub>50</sub>	50% (half) dose of substance causing death in the group of test animals (Median lethal Dose)
LC <sub>50</sub>	50% (half) lethal concentration of substance in the group of test animals
EC <sub>50</sub>	50% Effective Concentration of the substance causing the maximum response
PBT	Persistent, Bioaccumulative and Toxic
vPvB	Very Persistent, very Bioaccumulative
ACGIH	American Conference of State Industrial Hygienists
TWA	Time-weighted average
STEL	Short term exposure limit

### Additional information

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### Safety Data Sheet author's

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Berk SANDIKCIOĞLU  
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**TÜV**  
AUSTRIA

## SERTİFİKA

T.C. Çevre ve Şehircilik Bakanlığı tarafından 13.12.2014 tarih ve 29204 sayılı Resmî Gazete'de yayınlanan "Zararlı Maddeler ve Karışımlara İlişkin Güvenlik Bilgi Formları Hakkında Yönetmelik" gereklerine göre oluşturulmuş ve 19.12.2014 tarih, 21408564/135.08/16130 sayılı yazı ile "T.C. Çevre ve Şehircilik Bakanlığı Çevre Yönetimi Genel Müdürlüğü" tarafından onaylanmış M01 no'lu belgelendirme programına uygun olarak

TÜV AUSTRIA Personel Belgelendirme Eğitim Ltd. Şti.

tarafından yapılan değerlendirme ve 06/03/2020 tarihinde İzmir' de düzenlenen sınav sonucunda gerekli şartları sağlayarak

### "Güvenlik Bilgi Formu Hazırlayıcısı"

belgesi almaya hak kazanmıştır.

Bu sertifikanın geçerliliği TÜV AUSTRIA Personel Belgelendirme kurallarına uyulması ve yapılacak olan gözetim sonuçlarının olumlu geçmesine bağlıdır.  
Sertifika geçerlilik kontrolü için "[www.tuvaustria.org/Belgeli Personel Arama](http://www.tuvaustria.org/Belgeli_Personel_Arama)" ziyaret ediniz

## Berk SANDIKCIOĞLU

TÜV/01.221.04

Sertifika No

Program	Geçerlilik Tarihi	Geçerlilik Periyodu
GBF Güvenlik Bilgi Formu Hazırlayıcısı	18.03.2020 – 18.03.2023	3 Yıl

Belgelendirme Müdürü  
Bülent ÜNLÜKALAYCI

TÜV AUSTRIA

Personel Belgelendirme Eğitim Ltd. Şti.



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