

Prepared in accordance with the Regulation on Safety Data Sheets on Harmful Substances and Mixtures published in the Official Gazette dated 13 December 2014 and numbered 29204.

Prepared On : 28.12.2023 Revision No/Date :-/- MSDS No : GBF - 09

SECTION 1. IDENTIFICATION

1.1. Description of the Substance		
Substance Name	: MES NITRO	
Chemical Identification	: Mixture	
1.2. Information About the Pro	oduct	
Area of Useage/Application	: EC Fertilizer, Nitrogen Fertilizer Solution	
Restrictions for Useage	: No data available	
1.3. Manufacturer Company Information		
Company Name	: WONDER WORM Organik Gübre ve Tar. Ürün. San. Tic. Ltd. Şti.	
Address	: Nişantaşı Mah. Kalemkar Sok. Rahime Hatun Sitesi No: 12/B	
	Selçuklu – KONYA / TÜRKİYE	
Tel	: + 90 553 259 47 63	
Website	: www.wonderworm.com.tr	
E-mail	info@wonderworm.com.tr	
1.4. Emergency Phone Numbers		
U		

Emergency	: 112
UZEM National Toxic Information Center	: 114

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of Substances and Mixtures

- Classified according to the "Regulation on Classification, Labeling and Packaging of Substances and Mixtures" published in the (Repeated) Official Gazette dated 11 December 2013 and numbered 28848.
- H319 Serious Eye Damage/Eye Irritation, Category 2



Warning Word: CAUTIONHazard Class: H319 Causes serious eye irritation.



MES NITRO

Nitrogen Fertilizer Solution

Material Safety Data Sheet

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Precaution Class

P233 Keep container tightly closed

:

P280 Wear protective gloves/protective clothing/eye protection/face protection

P370+P378 In case of fire: Use Dry chemical, alcohol foam, multipurpose AFFF, carbon dioxide to extinguish.

P305+P351+P338 In case of eye contact: Rinse carefully with water for a few

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

P337+P313 If eye irritation is persistent: Get medical advice/attention.

P403+P235 Stores in a well-ventilated area, keep cold.

P501 Content/container; Dispose of at a hazardous or special waste collection point in accordance with local/regional/national/international regulations.

2.3. Other Hazards:

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

SECTION 3. INFORMATION ON COMPOSITON/INGREDIENTS

3.1. Substances

Not applicable.

3.2. Mixtures

Name	Identity of Substance/Mixture	%	Classification (SEA)
Total Nitrogen	CAS-No.) - (EC-No.) -	18	
- Ammonium Nitrogen	CAS-No.) 231-984-1 (EC-No.) 7783-20-2	6	no classification
- Nitrate Nitrogen	CAS-No.) 6484-52-2 (EC-No.) 229-347-8	6	Ox. Sol. 3 H272 Eye Irrit. 2 H319
- Urea Nitrogen	CAS No: 57-13-6 EC No: 200-315-5	6	no classification
Water Soluble Iron	CAS-No.) 7782-63-0 (EC-No.) 616-510-7	0,5	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319
Water Soluble Zinc	CAS-No.) 215-222-5 (EC-No.) 1314-13-2	0,2	Aquatic Acute 1 H400 (M=1) Aquatic Chronic 1 H410 (M=1)

* Expansion of H expressions is given in Chapter 16.

SECTION 4. FIRST AID MEASURES

4.1. Description of First Aid Measures

General First Aid	
Measures	: If in doubt or if symptoms persist, seek medical attention. Never give anything by
	mouth to an unconscious person.
Inhalation	: Remove from exposure, taking care not to inhale vapours. Keep warm. Seek medical attention if symptoms occur



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- Skin Contact: Rinse your skin with water/shower. Immediately remove/take off all contaminated
clothing. If skin irritation occurs: Get medical advice/attention.
- **Eye Contact** : Immediately flush eyes with plenty of water for at least 15 minutes keeping eye open. If possible, remove contact lenses. Get medical help.
- Ingestion : Do not try to induce vomiting. Seek medical attention if symptoms occur or if large amounts are swallowed. Accidental ingestion at a level high enough to be hazardous to health is unlikely

4.2. Significant Symptoms and Effects, Quick and Delayed

- After Inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Irritation of respiratory tract. Irritation of the nasal mucous membranes.
- After Skin Contact : Mild irritation
- **After Eye Contact** : Redness of the eye tissue. lacrimation Irritation of eye tissue.
- After Ingestion : Nausea, respiratory tract irritation.
- 4.3. Indication of Need for Medical Attention and Special Treatment

Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

The product is not flammable

5.1. Fire Extinguishers

- Suitable extinguishing agents
Unsuitable extinguishing agents: Water spray. Dry powder. Foam. Carbon dioxide
: None known.5.2. Special Hazards Caused by the Substance and MixtureFire Hazard: The product is not flammableExplosion Hazard
Hazardous decomposition
products in case of fire: Not detected.
Carbon dioxide.
- 5.3. Advice for Fire Fighting Squad/Personnel
 Firefighting measures

 Use water spray or mist to cool exposed containers. Do not dispose of water used for firefighting purposes into the environment.



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Protection in event of fire

: Do not attempt to intervene without appropriate protective equipment. Independent breathing apparatus. Complete protective clothing

SECTION 6. ACCIDENTAL RELEASE MEASURES

For non-emergency personne	el
Protective Equipment	: Wear recommended personal protective equipment
Emergency Plans	: Ventilate the spill area. Provide adequate ventilation.
For emergency responders	
Protective Equipment	: Do not attempt to intervene without appropriate protective
	equipment. For more information, see section 8: "Exposure
	controls/personal protection"
	controls/personal protection"

6.3 Methods and Materials for Containment and Cleaning			
Cleaning	: Contain liquid spill with absorbent material. Collect in closed containers for disposal. Notify authorities if product enters sewers or city		
Other Information	waters : Dispose of material or solid residues at an authorized facility		

6.4 References to Other Sections

See Section 13 for further information.

SECTION 7. HANDLING AND STORAGE

In order to ensure the protection of health, safety and environment, the employer is obliged to comply with the provisions of the "Regulation on Health and Safety Precautions in Working with Chemicals", published in the Official Gazette dated 26.12.2003 and numbered 25328, regarding the measures to be taken in the workplaces and workplaces where hazardous chemicals are used. Care should be taken to plan and take organizational measures.

7.1. Measures for Safe Handlin	ng
Measures for Safe Handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene Measures	: Do not eat, drink or smoke while using this product. Always wash your hands after handling the product



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	: Ground/connect container and receiving equipment : Keep container tightly closed and dry. Store in a cool, well- ventilated place away from incompatible materials. Store away from direct sunlight.	
Substances to be Avoided Suitable Packaging Material		
Unsuitable Packaging Material	: No data available	

7.3. Specific End Uses

No supplementary information.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

7.2. Conditions for Safe Storage, Including Incompatibilities

8.1. Exposure Controls

Appropriate Engineering Controls	: Ensure good ventilation of the work station.		
Hand Protection	: Protective gloves		
Eye Protection	: Safety glasses		
Skin and Body Protection	: Wear suitable protective clothing		
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory		
equipment			
Environmental Evenence Centrals Avoid release to the environment			

Environmental Exposure Controls

: Avoid release to the environment.

8.2 Exposure Controls



Appropriate Engineering Controls: Provide good ventilation in the work area. In case of any potential
exposure, emergency eyewash fountains and safety showers should be available in
the area.Hand Protection: Protective gloves. Standard EN 374 - Chemical protective gloves.
The selection of suitable gloves depends not only on the type of material but also
on other quality attributes that vary for each manufacturer.
: Edge protection safety glasses. Standard EN 166 - Personal eye
protectionSkin and Body Protection: Use suitable protective equipment.

Respiratory Protection: In case of insufficient ventilation wear suitable respiratory
equipment. Recommended filter type: A. Standard EN 14387 - Respiratory
protective devices - Gas filters combined filters - EN 136Environmental Exposure Controls: Avoid release to the environment



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

-	Physical State	: Liquid
-	Appearance	: Clear
-	Color	: Brown
-	Odor	: Characteristic
-	Odor Threshold	: No data available
-	рН	: 4 - 6
-	Relative evaporation rate (butyl acetal	te=1) : No data available
-	Melting Point	: Not applicable
-	Boiling Point	: No data available
-	Flash Point	: No data available
-	Auto-ignition Temperature	: No data available
-	Decomposition Temperature	: No data available
-	Flammability	: Not applicable
-	Vapor Pressure	: No data available
-	Vapor Density	: No data available
-	Evaporation Rate	: No data available
-	Relative Vapor Density	: No data available
-	Density	: 1,0 – 1,1 g/cm³ (20 °C)
-	Solubility	: Miscible with water in any proportion
-	Log Kow	: No data available
-	Viscosity, Kinematic	: No data available
-	Viscosity, Dynamic	: No data available
-	Explosive Properties	: No data available
-	Oxidizing Properties	: No data available
-	Explosive Borders	: No data available

9.2. Other Information

No additional information available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactions

The product is non-reactive under normal conditions of use, storage and transportv.

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of Harmful Reaction

No dangerous reactions known under normal conditions of use.

10.4. Conditions to Avoid

None under recommended storage and handling conditions (see section 7).



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10.5. Substances to Avoid

No additional information available.

10.6. Harmful Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on Toxic Effects

Skin corrosion/irritation	: Not classified (Based on available data, classification criteria are not met)
Serious eye corrosion/irritation	on : Not classified (Based on available data, classification criteria are not met)
Respiratory or skin sensitizati	on: Not classified (Based on available data, classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, classification criteria are not met)
Aspiration Damage	: Not classified (Based on available data, classification criteria are not met)

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecologic-General : The product is not considered to be harmful to aquatic organisms or to cause long-term adverse effects for the environment.

Acute Aquatic Toxicity	: Not classified
Chronic Aquatic Toxicity	: Not classified

12.2. Persistence and Degradability

No supplementary information

12.3. Bioaccumulation Potential

No supplementary information

12.4. Mobility in Soil

No supplementary information

12.5. Results of PBT and vPvB assessment

No supplementary information

12.6. Other Negative Effects

No supplementary information



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SECTION 13. DISPOSAL INFORMATION

13.1. Waste Treatment Methods

Regional regulations (waste): Dispose safely in accordance with national waste legislationWaste treatment methods: Dispose of via controlled incineration or landfill in licensed waste

storage facilities.

European Waste Catalog code (CED) : Not classified
Safe Disposal:
Leave the product in its original containers. Do not mix with other waste.
Dispose of the product according to official regulations.
Uncleaned Packaging:
Proposal : Packaging can be cleaned with water.

SECTION 14. TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN instructions

ADR 14.1. UN Number	IMDG	ΙΑΤΑ	ADN	RID
Not regulated for transport				
14.2. Proper UN shipping name				
Not applicable	Not pplicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing Group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental Hazards				
Harmful to the environment : No	Harmful to the environment : No Marine pollutant : No	Harmful to the environment : No	Harmful to the environment : No	Harmful to the environment : No

14.6. Special precautions for the user

- Overland transport

No data available

- Transport by sea
 - No data available
- Air transport
 - No data available
- Inland waterway transport
 - No data available
- Rail transport



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No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

Not applicable

SECTION 15. REGULATORY INFORMATION

National Regulations

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- Regulation on the Classification, Labeling and Packaging of Matter and Mixtures [R.G.11 / 12 / 2013-28848]
- Regulation on the Transport of Dangerous Goods by Road (R.G. 24/10 / 2013-28801)
- T.C. Ministry of Environment and Forestry, Regulation on Classification, Packing and Labeling of Hazardous Materials and Preparations, dated 26 December 2008, numbered 27092.
- Regulation on Restrictions on the Production, Market Supply and Use of Certain Hazardous Materials, Preparations and Products.
- Regulation on Health and Safety Precautions in Chemical Ingredients.
- Regulation on the Use of Personal Protective Equipment in Workplaces.
- Occupational Health and Safety Regulation.

SECTION 16. OTHER INFORMATION

ADN	European Agreement on the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement on the International Carriage of Dangerous Goods by Road	
GBF	Safety Data Sheet	
EC50	Average effective concentration	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Average lethal concentration	
LD50	Average lethal dose	
PBT	Persistent Bioaccumulative Toxic	
RID	Legislation on International Transport of Dangerous Goods by Rail	
SEA	Classification Labeling Packaging Regulation; 11.12.2013 - 28848 (Repeated)	
vPvB	Very Persistent and Very Bioaccumulative	

Abbreviations and Acronyms

Full text on H expressions

Prohibition / Restriction:

No prohibition or restriction has been imposed on the sale, use, areas of use and quantities of the product within the scope of this safety data sheet, in order to protect the environment and human health.

The information contained in this safety data sheet has been compiled based on the manufacturer's experience.

The product-related information in this Safety Data Sheet has been compiled from what is known about the ingredients. The data here are based on current knowledge and experience. This Safety Data Sheet



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examines the product in terms of safety requirements and does not make any warranty regarding the features of the product.

The data here is valid only when the product is used in the appropriate application(s). The product is not sold as suitable for other applications; use in such a situation may lead to risks not mentioned in this list. Do not use for other application(s) without obtaining information from the manufacturer.

It has been prepared/approved by expert personnel who have been prepared within the framework of the "Regulation on Safety Data Sheets Regarding Harmful Substances and Mixtures" (OG. 13.12.2014 dated and 29204) and certified as stipulated by the regulation.

The information given in this document is based on the best available information. This information is valid only for the specified substance/preparation and may not be valid if this substance/preparation is mixed with other substances/preparations or used in any other process.

The information given in this document does not constitute a guarantee/guarantee for the features of the product and does not constitute a legally binding agreement/contractual legal relationship. This document supplements the technical documentation, but cannot replace them. The information given is based on our knowledge of this product available at the time of publication.

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