

## 1. CHEMICAL PRODUCT IDENTIFICATION AND MANUFACTURER AND/OR SUPPLIER INFORMATION

<b>Technical name</b>	<b>Liquid mineral fertilizers "Nectar Bio Ammophos"</b>
<b>Brief recommendations for use</b>	The product is optimized for use in a variety of crops, including grains, vegetables and fruits, both open and closed ground cultivation and the aquaculture industry.
<b>Package</b>	The product is packaged in 1 l, 5 l, 10 l polymer packaging.
<b>Name of the applicant organization</b>	Limited Liability Company "BioAgroRoSt"
<b>Manufacturer's name</b>	Limited Liability Company "BioAgroRoSt"
<b>Address</b>	Russian Federation, Chelyabinsk region, city of Chelyabinsk, Korolenko Street, Building 6, 1st floor.
<b>Telephone for emergency consultations</b>	+79193297787
<b>E-mail</b>	bioagroross@mail.ru
<b>Regulatory document for production</b>	TU 20.15.79-002-64679615-2025

## 2. GHS HAZARD IDENTIFICATION

<b>Classification</b>	According to the degree of impact on the body, low-hazard products: hazard class 4. GHS classification: - chemical products causing corrosion (necrosis)/irritation of the skin – class 2; - chemical products causing serious damage/irritation of the eyes – class 2A; - chemical products having selective toxicity on target organs and/or systems after a single exposure – class 3.
<b>Warning label signal word</b>	Carefully
<b>Hazard symbols</b>	
<b>H-phrases</b>	H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause irritation to upper respiratory tract.
<b>P-phrases</b>	P260: Do not breathe vapour/aerosol P264: Wash hands and face thoroughly after handling P280: Wear gloves/coveralls/eye protection/face protection

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	Concentration (%)	CAS number	EC number
Water	36,324	7732-18-5	231-791-2
Ammonium dihydrogen phosphate	60	7722-76-1	231-764-5
Caustic soda	0,2	1310-73-2	215-185-5
Hydroxyethylidene diphosphonic acid	1,7	7414-83-7	231-025-7
Hydroxyethyl cellulose	1,5	9004-62-0	618-387-5
Microelements	0,276	-	-

## 4. FIRST AID MEASURES

<b>In case of eye contact</b>	Rinse with running water with the eye slit wide open. If necessary, seek medical help.
<b>When exposed to the skin</b>	Remove contaminated clothing. Wash with soap and running water. Seek medical attention if necessary.

**If swallowed**

Rinse your mouth with water, drink plenty of fluids, take activated charcoal, or a saline laxative. If necessary, seek medical attention.

**By inhalation**

Remove the victim from the contaminated atmosphere, remove clothing that restricts breathing, keep calm and warm. If necessary, seek medical help.

**The most important symptoms**

There are no hazards requiring special first aid measures.

**Potential dangerous effects**

Missing.

**5. FIRE FIGHTING MEASURES****Flammability**

Non-flammable substance.

**Extinguishing methods**

By the main source of ignition.

**Extinguishing specifics**

By the main source of ignition.

**Additional Information**

Act in accordance with the internal emergency plan and instructions for dealing with accidents and other emergencies. Neutralize all sources of ignition. Do not allow fire extinguishing agents to enter the water environment.

**6. ACCIDENTAL RELEASE/LEAKAGE MEASURES****Personal Precautions**

Notify the territorial body of sanitary and epidemiological supervision. Stop traffic in the danger zone. Eliminate the incoming product with precautions. Transfer the contents to a working container. Do not allow the substance to enter waterways, basements, sewers. Straits should be protected with an earthen rampart, covered with inert material (sand, earth). Collect contaminated sand with a non-sparking tool and take it out for further neutralization (burning). Cut off the surface layer of soil with pollution, collect and take out for liquidation. Cover the cuts with a fresh layer of soil, plow the soil.

*When bottling up indoors:*

Collect the product in a separate container, cover the product with absorbent materials, wipe the place with a dry cloth or rag, then with hot water and detergent. Use skin protection products.

Check MPC r.z. and MPC atm. air for product components and combustion products before allowing personnel to work.

Waste generated during liquidation of leaks, spills of products (damaged containers, etc.) is disposed of as waste of hazard class IV (low-hazardous) or in places agreed with the territorial body of sanitary and epidemiological supervision.

**Environmental Precautions**

The main requirements that ensure the preservation of the natural environment are:

- maximum sealing of containers, communications and other equipment;
- periodic monitoring of the content of harmful substances in the air of the working area;
- analysis of industrial effluents for the content of harmful substances in them in permissible concentrations;
- cleaning the air of industrial premises to acceptable standards for the content of harmful substances before being released into the atmosphere.

In case of exposure to the public or the environment, the competent authorities must be notified.

**Contamination and cleaning**

Recommended:

Absorb product with sand or inert absorbent and store in a safe place. Do not use sawdust or other combustible absorbents for absorption. Removal information is in section 13.

**7. HANDLING AND STORAGE****Precautions and safe handling**

a) Advice for safe handling:

Comply with the requirements of current legislation regarding the prevention of accidents at work. Production facilities must be equipped with supply and exhaust and emergency ventilation systems. Maintain cleanliness and order in the production area.

b) Technical recommendations for ensuring fire and explosion safety:

- mandatory compliance with fire safety rules;
- equipping workplaces with primary fire extinguishing equipment.

c) Technical recommendations for ensuring environmental protection:

- prevent the product from entering the environment. environmental protection should be ensured by control over compliance with maximum allowable emissions.

**Secure storage**

a) Engineering safety measures during storage:

The fertilizer is stored packed in bags in closed storage areas or in closed bunkers without temperature control. Do not expose to sunlight.

Shelf life is 2 years from the date of production.

b) Incompatible substances and materials during storage:

oxidizing agents, acids, alkalis, flammable and flammable substances.

**8. PERSONAL PROTECTION EQUIPMENT****Maximum permissible concentrations in the air of the working area**Ammonium dihydrogen phosphate, MPCw.z. = 10 mg/m<sup>3</sup>.Caustic soda, MPCw.z. = 0.5 mg/m<sup>3</sup>.Hydroxyethyl cellulose, MPCw.z. = 10 mg/m<sup>3</sup>.**Personal protection**

- Conduct pre-employment and periodic medical examinations of personnel involved in the work.

- Avoid direct contact of personnel with the product.

- Do not smoke or eat in areas where the product is used or stored.

- Wash hands thoroughly before eating. Do not use chemical utensils for eating and drinking.

- Take a shower after work.

**Equipment**

Production facilities must be equipped with supply and exhaust ventilation. When working, it is necessary to use personal protective equipment.

**Individual protection means**

Choose personal protective equipment according to the operations to be performed and the properties of the product.

**Eye protection**

When manufacturing products for eye protection, use safety goggles that have passed the test.

**Respiratory protection**

In the manufacture of products for respiratory protection, use respiratory protective equipment that has passed the tests.

**Hand skin protection**

In the manufacture of hand protection products, use protective gloves that have been tested.

**Special funds**

None.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Colourless liquid
Mass fraction of nutrients (nitrogen, phosphorus, potassium), %	60
Mass fraction of microelements (zinc, copper, manganese, boron, molybdenum, cobalt, iron), %	0,3
Hydrogen ion concentration, pH units	7,5
Mass fraction of water, %	80
Density, g/cm <sup>3</sup>	1,20-1,25
Mass fraction of toxic element impurities, including lead, arsenic, cadmium, %	None

**10. STABILITY AND REACTIVITY****Chemical stability**

The products are chemically stable under normal conditions of storage, transportation and operation.

**Solubility**

Soluble in water.

**11. TOXICITY INFORMATION****Acute toxicity**

No data available.

**Respiratory or skin sensitization**

The sensitizing effect of the components included in the product has not been established.

**Mutagenicity**

Does not possess

**Carcinogenicity**

Does not possess

**Reproductive toxicity**

Does not possess

**Specific target organ toxicity - single exposure**

Does not possess.

Specific target organ toxicity - repeated exposure	Does not possess
Aspiration hazard	Does not possess
Chronic effects	Does not possess

## 12. ECOLOGICAL INFORMATION

Hygiene standards	No data available.
Aquatic microorganisms	No data available.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other side effects	No other adverse environmental impacts (eg ozone depletion, endocrine disruption, global warming potential) are expected from this product.

## 13. WASTE MANAGEMENT

Waste disposal methods	Waste generation should be avoided or minimized whenever possible. Empty containers and packaging unsuitable for further use, as well as product residues, are disposed of with household waste in specially designated areas. Decontamination is not required.
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## 14. TRANSPORT INFORMATION

14.1 UN number (UN)	No
14.2 Proper shipping and shipping names	<i>Proper shipping name:</i> Missing <i>Shipping name:</i> <b>Liquid mineral fertilizers "Nectar Bio Ammophos"</b>
14.3 Dangertypes of transport risks	
<i>International Civil Aviation Organization / International Air Transport Association (ICAO / IATA)</i>	
Danger/Class/Division	No
environmental hazards	No
Signs	
Special Provisions (SP)	
<i>International Maritime Dangerous Goods Code (IMDG)</i>	
Danger/Class/Division	No
Danger to the aquatic environment	No
Signs	
EmS	
<i>Intergovernmental Organization for Rail Transport (RID)/ European Agreement on the Carriage of Dangerous Goods (ADR)</i>	
Danger/Class/Division	No
Signs	No
Hazard identification number	
The code	
Classification code	
emergency cards	
14.4 Packing group	No
14.5 Environmental hazards	No

**14.6 Mass transportation according to**

*application. II to the International Convention for the Prevention of Pollution from Ships (MARPOL) 73/78 and code of the International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC)*

**14.7 Special Precautions**

Transportation is carried out by transport of all types in accordance with the rules for the carriage of goods in force on this type of transport, ensuring the safety of products and containers.

**15. REGULATORY INFORMATION****HMIS-Hazardous Materials Identification System**

It is not a hazardous product.

**NFPA 704-Standard Material Hazard Identification System for Emergency Response****16. ADDITIONAL INFORMATION**

The data is based on current knowledge, however, it does not constitute a guarantee of any specific properties of the product and does not establish any contractual relationship valid from a legal point of view.

**Safety disclaimer:**

The information provided in this Material Safety Data Sheet is based on data believed to be accurate as of the date of preparation of this Material Safety Data Sheet. No responsibility is accepted for any damage or injury caused by abnormal use or due to non-compliance with recommended practices. The above information and product are provided on the condition that the person receiving them should make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no permission is granted or implied for the use of any patented invention without a license. The above information is believed to be accurate and reflects information available to the manufacturer. However, this does not entail a guarantee for all the specific characteristics of the goods and does not serve as the basis for the emergence of a contractual relationship from a legal point of view. The laws and regulations currently in force must be observed by the successor of the manufacturer under his own responsibility.