

**Diammonium phosphate**

Revision Date 20.12.2023    Version 2.1    Date of previous issue: No Previous Validation    US / EN

**SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Trade name	: Diammonium phosphate
<u>Use of the Substance/Mixture</u>	: Mineral fertilizer intended for agricultural production, communal services and personal subsidiary plots in open and protected ground. Use in the woodworking, textile, paper industries, in the preparation of metal alloys, and also for use as a raw material in the production of mineral fertilizers and in food industry
<u>Company</u>	: Manufacturer: LLC «Almaz Fertilizers» Russia, 357341, Lermontov, Stavropolskiy reg. st. Promyshlennaya 7, komn. 60  Provider: CASHMERE CAPITAL LTD 1N room, premises II, floor 5, building 2, house 4/7, Vozdvizhenka street, Moscow, 125009, Russia
<u>Telephone</u>	: Manufacturer: +7 (879-35) 3-76-59 Provider: +7 (495) 989-70-73
<u>E-mail address</u>	: info@a-group.com
<u>Emergency telephone number</u>	: Note: please, consult with your local/national competent authorities for the emergency number in your country.

**SECTION 2. HAZARDS IDENTIFICATION**

Classification and labelling according to HazCom 2012.

<u>Hazard Class and Category Code(s):</u>	<u>Hazard Statement(s):</u>
Eye irritation, Category 2A	H319 Causes serious eye irritation.
Sensitization – skin, Category 3	H315 Causes skin irritation.

Hazard pictogram (s) :



Exclamation mark

Signal Word	: Warning.
Hazard statements	: Causes serious eye irritation. Causes skin irritation.

Precautionary statements : **Prevention:**

P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

P302 + P352 : IF ON SKIN: Wash with plenty of water.  
P321: Special first aid measures: At the first sign of indisposition, immediately stop work, remove the victim from the area of exposure to the chemical, carefully remove personal protective equipment and work clothing, avoiding contact with the chemical on the skin, immediately seek medical help. In case of accidental ingestion of a chemical,

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rinse your mouth with water, immediately give the victim 1-2 glasses of water with a suspension of enterosorbent (activated carbon, Enterumin, Polysorb, etc.) to drink in accordance with the recommendations for their use; then, by irritation of the root of the tongue, induce vomiting, then again drink 1-2 glasses of water with a suspension of the sorbent and immediately consult a doctor.

If inhaled, remove victim to fresh air. Seek medical attention if necessary.

P332+P311: If skin irritation occurs: Call a POISON CENTER/doctor

P362 + P364 : Take off contaminated clothing and wash it before reuse

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P311 If eye irritation persists: Call a POISON CENTER/doctor

**Disposal:**

Dispose of contents or container to in accordance with local regulations.

**SECTION 3. COMPOSITION, INFORMATION ON INGREDIENTS**

Chemical name	Concentration, wt. %	CAS-No
Diammonium hydrogenphosphate	≥ 99.5	7783-28-0
Water	<0.5	7732-18-5

**SECTION 4. FIRST AID MEASURES**

General advice	: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Take off contaminated clothing and shoes.
Inhalation	: If breathed in, move person into fresh air. Keep patient warm and at rest. Get medical advice or attention if you feel unwell.
Skin contact	: In case of contact, flush skin with soap and plenty of water. If skin irritation persists, call a physician.
Eye contact	: Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse with plenty of water and seek medical advice. If symptoms persist, call a physician.
Ingestion	: Rinse mouth with water. Get medical attention if you feel unwell.

**SECTION 5. FIRE-FIGHTING MEASURES****Extinguishing Media**

Suitable extinguishing media : Use water spray, alcohol-resistant foam.

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Unsuitable extinguishing media : No data available.

**Unusual fire and explosion hazards**

Specific hazards : Hazardous decomposition products may be formed under fire conditions (see section 10).

**Special firefighting procedures**

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions : Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid breathe dust. Avoid contact with skin and eyes.

Environmental precautions : Do not flush into surface water or sanitary sewer system. Prevent further spillage if safe to do so. Avoid release to the environment.

Methods for cleaning up : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Avoid pollution of environment.

Reference to other sections : See section 8 for personal protective equipment and section 13 for waste disposal.

**SECTION 7. HANDLING AND STORAGE****Handling**

Advice on safe handling : For personal protection see section 8. Avoid formation of dust. Avoid breathe dust. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

**Storage**

Requirements for storage areas and containers : Store in a place accessible by authorized persons only. Protect from moisture. Keep container in a dry and well-ventilated place. Store in paper bags, plastic bags, fabric polypropylene bags or specialized soft containers.

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Advice on common storage : Incompatible with bases. Do not store together with organic substances and chemical pesticide.  
Keep away from food, drink and animal feeding stuffs.

Storage period : 12 month.

Other data : No data available.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Occupational exposure limits**

Contains no substances with occupational exposure limits.

**Exposure controls**

Engineering measures : Provide sufficient air exchange and/or exhaust in work rooms.  
Highly effective exhaust ventilation.

**Personal protective equipment**

Respiratory protection : Respirator type N95, N99.

Skin and body protection : Protective clothing.  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Eye protection : Safety goggles with clear lenses.  
Use equipment for eye protection tested and approved under appropriate government standards US.

Hand protection : Protective gloves.  
Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Personal protective equipment (pictograms) :



Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. General industrial hygiene practice. Avoid breathing dust. Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Follow the eyes and face protection plan.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : Solid.  
Form : Crystals.  
Color : White.  
Odor : Odorless.  
Odor threshold : No data available.  
Upper/lower flammability or explosive limits : No data available.

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Vapor density	:	Not applicable. The product is a solid at normal conditions.
Vapor pressure	:	0.000076 kPa [room temperature]
pH	:	7.5 – 8.5
Relative density	:	No data available.
Bulk density	:	No data available.
Melting point/freezing point	:	No data available.
Solubility in water (t-20 °C)	:	690000mg/l
Initial boiling point and boiling range	:	No data available.
Flash point	:	Not applicable. The product does not evaporate.
Evaporation rate	:	Not applicable. The product is a solid at normal conditions.
Flammability (solid, gas)	:	Non-flammable.
Partition coefficient: n-octanol/water	:	Not applicable.
Auto-ignition temperature	:	No data available.
Decomposition temperature	:	No data available.
Viscosity	:	Not applicable. The product is a solid at normal conditions.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	React with bases and strong oxidizing agents; exchange reaction.
Chemical stability	:	No decomposition if stored and applied as directed.
Incompatibility (materials to avoid)	:	Organic substances, pesticides and bases.
Hazardous decomposition products	:	Build-up of dangerous fumes possible in cases of fire: ammonia, phosphorus oxides. When interacting with alkalis, ammonia is released; when treated with strong acids - phosphoric acid.
Hazardous polymerization	:	Will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION****Potential acute health effect**

Inhalation : May cause respiratory irritation (not classification).

Eyes : Irritating to eyes.

Skin : Slightly irritating to skin (not classification).

Ingestion : There are no toxicological effects.

**Sensitization of the respiratory / skin**

Skin sensitization : Causes skin irritation.

Respiratory sensitization : Non respiratory sensitizing.

**Acute toxicity**

Acute oral toxicity

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Diammonium hydrogenorthophosphate : DL<sub>50</sub> (rat): > 6500 mg/kg  
: DL<sub>50</sub> (mise): > 5100 mg/kg

**Acute dermal toxicity**

Diammonium hydrogenorthophosphate : DL<sub>50</sub> (rabbit): > 7950 mg/kg

**Acute inhalation toxicity**

Diammonium hydrogenorthophosphate : LC<sub>50</sub> (rat): > 5 000 mg/m<sup>3</sup> (No mortality)  
: Exposure time: 4 h

**Chronic toxicity**

No data available.

**Mutagenicity**

No mutagenic effect.

**Carcinogenicity**

No carcinogenic effect.

**Reproductive toxicity**

No reproductive effect.

**Aspiration hazard**

Not applicable. The product is a solid at normal conditions.

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**Toxicity to fish:

Diammonium hydrogenorthophosphate : LC<sub>50</sub> (Oncorhynchus mykiss): 26500 mg/l  
: Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

Diammonium hydrogenorthophosphate : EC<sub>50</sub> (Daphnia magna): > 100 mg/l  
: Exposure time: 48 h

Toxicity to aquatic plants:

Diammonium hydrogenorthophosphate : EC<sub>50</sub> (Pseudokirchneriella subcapitata): > 100 mg/l  
: Exposure time: 72 h

Long-term study fish/daphnia and other aquatic invertebrates/aquatic plants:

No data available.

**SECTION 13. DISPOSAL CONSIDERATIONS****Methods of disposal**

Advice on disposal and packaging : Disposal:  
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must



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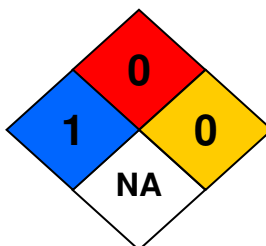
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**Canada Regulations:**

Listed on the Canadian DSL (Domestic Substances List)

**SECTION 16. OTHER INFORMATION**Hazardous Material  
Information System (U.S.A.)

<b>Health</b>	<b>1</b>
<b>Flammability</b>	<b>0</b>
<b>Physical Hazard</b>	<b>0</b>
<b>Personal Protection</b>	<b>F</b>

National Fire Protection  
Association (U.S.A.)**Creation Date:**

07- July -2022

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20- December -2023

**Revision Summary:**

This document has been updated to comply with the US OSHA HazCom2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

**Disclaimer:**

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