SAFETY DATA SHEET		
according to Globally Harmon Labelling of Chemicals (GHS) ST/SG/AC.10/30/Rev.8		Classification and
Ammonium phosphate	sulphate N	NPS 16:20:12
		f previous issue: 17.01.2022
ECTION 1. CHEMICAL PRO	DUCT AND CO	MPANY IDENTIFICATION
Trade name Synonyms	: Ammonium : Sulfoammo	n phosphate sulphate NPS 16:20:12 ophos
<u>Use of the Sub-</u> stance/Mixture	: mineral fer	ilizer
<u>Company</u>	Legal addro st. Promysl Postal add	rer: LLC «Almaz Fertilizers»" ess: Russia, 357341, Lermontov, Stavropolskiy reg. hlennaya 7, room 60 dress: Russia, 357341, Lermontov, Stavropolskiy myshlennaya 7, room 60
	1N room,	ASHMERE CAPITAL LTD premises II, floor 5, building 2, house 4/7, nka street, Moscow, 125009, Russia
Telephone		rer: +7 (879-35) 3-76-59 7 (495) 989-70-73
E-mail address	: info@a-gro	oup.com
Emergency telephone num- ber		se, consult with your local/national competent au- the emergency number in your country.
ECTION 2. HAZARDS IDEN	TIFICATION	
Classification and labelling accord Chemicals (GHS), ST/SG/AC.10/		larmonized System of Classification and Labelling of
Hazard Class and Category	Code(s):	Hazard Statement(s):
Eye irritation, Category 2A Acute toxicity, oral, Category Skin corrosion/irritation, Cate	5	Causes serious eye irritation. May be harmful if shallowed. Causes skin irritation.
Hazard pictogram (s)		
	Exclamatio	on mark
Signal Word Hazard statements	H319 Cause	
		• hands thoroughly after handling.
Precautionary statements	P280: Wear p	protective gloves, eye protection, face protection. breathe dust/fume/gas/mist/vapours/spray.

SAFETY DATA SHEET according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) ST/SG/AC.10/30/Rev.8 Ammonium phosphate sulphate NPS 16:20:12 Revision Date 18.12.2023 Version G-EN-2 Date of previous issue: 17.01.2022 Response: P312 Call a POISON CENTER/doctor if you feel unwell P302 + P352 : IF ON SKIN: Wash with plenty of water. P321: Specific treatment (manufacturer/ supplier to specify treatment) P322 + 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 Dispose of contents or container to in accordance with local regulations ons						
Revision Date 18.12.2023 Version G-EN-2 Date of previous issue: 17.01.2022 Response: P312 Call a POISON CENTER/doctor if you feel unwell P302 + P352 : IF ON SKIN: Wash with plenty of water. P321: Specific treatment (manufacturer/ supplier to specify treatment) 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 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 Dispose of contents or container to in accordance with local regulations	according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) ST/SG/AC.10/30/Rev.8					
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No data available.

SECTION 3. COMPOSITION, INFORMATION ON INGREDIENTS

The product is a chemical substance within the meaning of Regulation (EC) No. 1272/2008 [CLP]

Chemical Name	Concentration, wt. %	CAS-No	Regulation (EC) No. 1272/2008 [CLP]
Ammonium dihydrogenorthophosphate	>70	7722-76-1	Not classified
Ammonium sulphate	≥20	7783-20-2	Not classified
Diammonium hydrogen phosphate	≪ 9	7783-28-0	Not classified
Water	≤ 1	7732-18-5	Not classified

There are no additional ingredients, which are presented existing within the current supplier's knowledge and classified, contributed to the substance's classification and consequently required reporting in this section.

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately (show the label where possible). Never give anything by mouth to an unconscious person.
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	:	If easy to do, remove contact lens, if worn. In the case of con- tact with eyes, rinse with plenty of water. If symptoms persist, call a physician
Ingestion Most important symptoms and effects, both acute and delayed	:	Rinse mouth with water. If you feel unwell, call a physician. Inhalation: no data available. Skin contact: redness. Eye contact: redness, opacity, swelling. Ingestion: headache, nausea, vomiting, diarrhea
		0.4.0

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nmonium phosphate	sulphate NPS 16:20:12				
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CTION 5. FIRE-FIGHTING I	·				
Extinguishing Media					
Suitable extinguishing media	: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.				
Unsuitable extinguishing media	: Do not use water jet.				
Unusual fire and explosion	hazards				
Specific hazards	: Hazardous decomposition products may be formed under fire conditions (see section 10).				
Special firefighting procedu	Ires				
Special protective equipment for fire-fighters	t : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.				
Further information	: Standard procedure for chemical fires. Use extinguishing mea- sures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extin- guishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed in accordance with local regulations.				
CTION 6. ACCIDENTAL RE	ELEASE MEASURES				
CTION 6. ACCIDENTAL RE Personal precautions	 ELEASE MEASURES Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid breathe dust. Avoid contact with skin and eyes 				
	: Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid				
Personal precautions	 Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid breathe dust. Avoid contact with skin and eyes Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respec- 				
Personal precautions Environmental precautions	 Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid breathe dust. Avoid contact with skin and eyes Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective. Spills should be collected and used as intended. Collect unsuitable product in a container for disposal in accordance with local / national legislation. Pick up and arrange disposal without 				
Personal precautions Environmental precautions Methods for cleaning up	 Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid breathe dust. Avoid contact with skin and eyes Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective. Spills should be collected and used as intended. Collect unsuitable product in a container for disposal in accordance with local / national legislation. Pick up and arrange disposal without creating dust. Avoid pollution of environment See section 8 for personal protective equipment and section 13 for waste disposal. 				
Personal precautions Environmental precautions Methods for cleaning up Reference to other sections CTION 7. HANDLING AND	 Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid breathe dust. Avoid contact with skin and eyes Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective. Spills should be collected and used as intended. Collect unsuitable product in a container for disposal in accordance with local / national legislation. Pick up and arrange disposal without creating dust. Avoid pollution of environment See section 8 for personal protective equipment and section 13 for waste disposal. 				
Personal precautions Environmental precautions Methods for cleaning up Reference to other sections	 Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Avoid dust formation. Avoid breathe dust. Avoid contact with skin and eyes Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective. Spills should be collected and used as intended. Collect unsuitable product in a container for disposal in accordance with local / national legislation. Pick up and arrange disposal without creating dust. Avoid pollution of environment See section 8 for personal protective equipment and section 13 for waste disposal. 				

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nmonium phosphate) S	ulphate NPS 16:20:12
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Advice on protection against fire and explosion Storage	:	Normal measures for preventive fire protection.
-	:	Keep container in a dry and well-ventilated place. Store in bags or specialized soft containers.
Further information on stor- age conditions		Protect from moisture.
Advice on common storage	:	Keep away from food, drink and animal feeding stuffs. Store separate from alkalis, organic substances, fertilizers and pesticides.
Storage period	:	9 months.
Other data	:	No data available.
CTION 8. EXPOSURE CON Occupational exposure lim Contains no substances with	its	ROLS/PERSONAL PROTECTION
Occupational exposure lim Contains no substances with Exposure controls	its occ	cupational exposure limits.
Occupational exposure lim Contains no substances with	its occ	
Occupational exposure lim Contains no substances with Exposure controls	iits occ	cupational exposure limits. Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation.
Occupational exposure lim Contains no substances with Exposure controls Engineering measures	nits occ	cupational exposure limits. Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation.
Occupational exposure lim Contains no substances with Exposure controls Engineering measures Personal protective equipm	nits occ	cupational exposure limits. Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation. t
Occupational exposure lim Contains no substances with Exposure controls Engineering measures Personal protective equipm Respiratory protection	iits occ	 cupational exposure limits. Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation. t A respirator with a filter against harmful particles. Protective clothing made of dust-proof fabric, cotton, broad-
Occupational exposure lim Contains no substances with Exposure controls Engineering measures Personal protective equipm Respiratory protection Skin and body protection	nen	 cupational exposure limits. Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation. t A respirator with a filter against harmful particles. Protective clothing made of dust-proof fabric, cotton, broad-cloth.
Occupational exposure lim Contains no substances with Exposure controls Engineering measures Personal protective equipm Respiratory protection Skin and body protection Eye protection	nen	 cupational exposure limits. Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation. t A respirator with a filter against harmful particles. Protective clothing made of dust-proof fabric, cotton, broad- cloth. Safety glasses.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid. [granules]	
Shape	granules	
Colour	White	
Odour	Odorless.	
pH Malting paint	No data available	
Melting point	Ammonium dihydrogenorthophosphate 192 °C; Amm sulphate -350°C; Diammonium hydrogen phosphate 155	
Boiling point/range	No data available.	
Flash point	Not applicable. The product is a solid at normal condition	IS.
Evaporation rate	Not applicable.	
Flammability	No data available.	
Lower explosion limit	No data available.	
Upper explosion limit	No data available.	
Vapour pressure	Not applicable. The product is a solid at normal condition	ıs.
Vapour density	Not applicable. The product is a solid at normal condition	
Density	: 0,87-0,92 g/sm³ at 19 °C	
Bulk density	0.9 - 1.1 kg/dm ³	
Solubility	No data available	
Partition coefficient n-	No data available.	
octanol/ water (log Pow)		
Auto-ignition temperature	No data available.	
Decomposition point/range	> 200 °C	
Viscosity, kinematic	Not applicable.	
Viscosity, dynamic	Not applicable.	

SECTION 10. STABILITY AND REACTIVITY

Chemical stability Reactivity	 Stable. Interacts with alkalis and strong acids. Able to enter into an exchange reaction. 	
Possibility of hazardous reac- tions	: Under normal conditions of storage and use, hazardous reac- tions will not occur.	
Conditions to avoid	: Incompatible with alkalis, strong acids, magnesium. Avoid heating above 200 °C (decomposes).	
Hazardous decomposition products	: Ammonia, oxides of nitrogen, oxides of sulfur and oxides of phosphorus	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Ammonium dihydrogenorthophosphate	:	LD ₅₀ (rat): > 5750 mg/kg LD ₅₀ (mice): 5000 mg/kg
Ammonium sulphate		LD ₅₀ (rat): 4 540 mg/kg LD ₅₀ (mice): > 2450 mg/kg

AFETY DATA SHEET cording to Globally Harmonize abelling of Chemicals (GHS) T/SG/AC.10/30/Rev.8	ed System of Classification and
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Diammonium hydrogen Phosphate <u>Acute inhalation toxicity</u> Ammonium	LD ₅₀ (rat): > 5750 mg/kg LD ₅₀ (mice): > 5000 mg/kg : LC ₅₀ (rat): > 5 000 mg/m ³ (No mortality)
dihydrogenorthophosphate	Exposure time: 4 h
Acute dermal toxicity	
Ammonium	: LD ₅₀ (rat): > 2500 mg/kg
dihydrogenorthophosphate Diammonium hydrogen phosphate	LD ₅₀ (rabbit): > 7 950 mg/kg
Acute toxicity (other routes of	of administration)
No data available.	
Skin irritation	: Causes skin irritation.
Eye irritation	: Causes serious eye irritation.
Skin sensitisation	: Non sensitizing.
Respiratory sensitisation	: Non respiratory sensitizing.
<u>Specific target organ toxicity af</u> No data available.	ter single exposure
Specific target organ toxicity af	ter repeated exposure (sub-acute / sub-chronic)
Ammonium dihydrogenorthophosphate	: NOAEL (sub-acute, rat): = 250 mg/kg bw/day Route of application: oral Exposure time: 6 weeks
CMR effects:	
Mutagenicity Carcinogenicity Toxicity for reproduction	 No mutagenic effect. No carcinogenic effect. No reproductive effect.
Aspiration hazard	: Not applicable. The product is a solid at normal conditions.
CTION 12. ECOLOGICAL IN	FORMATION
Toxicity to fish:	-
Ammonium dihydrogenorthophosphate	: LC ₅₀ (Pimephales promelas): > 155 mg/l Exposure time: 96 h
Diammonium sulfate	LC₅₀ (Oncorhynchus mykiss): 53 mg/l Exposure time: 96 h
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Diammonium hydrogen phosphate	LC ₅₀ (Pimephales promelas): 155 mg/l Exposure time: 96 h						
Toxicity to daphnia and other aquatic invertebrates:							
Ammonium EC ₅₀ (Daphnia magna): > 100 mg/l dihydrogenorthophosphate Exposure time: 48 h							
Diammonium sulfate	: EC50 (Ceriodaphnia): 121.7 mg/l Exposure time: 48h LC ₅₀ (Daphnia magna): 423 mg/l), Exposure time: 24h						
Toxicity to aquatic plants:							
Ammonium dihydrogenorthophosphate	EC ₅₀ (Pseudokirchneriella subcapitata): > 100 mg/l Exposure time: 72 h						
Diammonium sulfate	: EC50 (Chlorella vulgaris): 2 700 mg/l Exposure time: 18 h						
Long-term study fish/daphnia ar	nd other aquatic invertebrates/aquatic plants:						
No data available.							
Persistence and degradability	Persistence and degradability						
<u>Biodegradability</u>	: An inorganic substance, biodegradation studies are not applicable.						
Bioaccumulation potential							
	Simple inorganic salts with high aqueous solubility will exist in a dissociated form in an aqueous solution. Such a substance has a low potential for bioaccumulation.						
No data available.							
Adsorption coefficient	: No data available.						
Further information on ecolog	IY						
Additional ecological information	: The product should not be allowed to enter drains, water courses or the soil.						
ECTION 13. DISPOSAL CONS	IDERATIONS						
Methods of disposal							
Advice on disposal and packaging	: Disposal: In accordance with local and national regulations. Do not dis- pose of waste into sewer. This material and its container must be disposed of in a safe way. Do not dispose of together with household waste. Waste codes should be assigned by the user based on the application for which the product was used.						
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SECTION 14. TRANSPORT INFORMATION

Regulatory information	UN number	Proper shipping name	Class	Packing group
DOT	-	Not dangerous goods.	-	-
ADR / RID	-	Not dangerous goods.	-	-
IMDG	-	Not dangerous goods.	-	-
ΙΑΤΑ	-	Not dangerous goods.	-	-

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

SECTION 15. REGULATORY INFORMATION

A chemical safety assessment has been performed <u>Ozone depleting substances</u> Not listed. <u>Seveso Directive</u> Not listed. <u>Montreal Protocol</u> Not listed. <u>Stockholm Convention on Persistent organic Pollutants</u> Not listed. <u>Rotterdam Convention on Prior Informed Consent</u> Not listed.

SECTION 16. OTHER INFORMATION

Abbreviations and acro- nyms	:	ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods MARPOL = International Convention for the Prevention of Pol- lution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution") RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

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Version	:	2	

Notice to reader: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.