SAFETY DATA SHEET according to Regulation (EC) No 1907/2006, Regulation (EU) No 2015/830, Regulation (EC) No 1272/2008 Diammonium phosphate Revision Date 20.02.2016 Version 3.0 EU/ EN SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING 1.1 Product identifier Trade name : Diammonium phosphate Chemical name : Not applicable. CAS-№ : Not applicable. EC-№ : Not applicable. : Not applicable. The product is a preparation. Registration number 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Substance/ Mix- : Fertilizer. ture 1.3 Details of the supplier of the safety data sheet Company : Phosphorit Industrial Group LLC Phosphorit Industrial Site, Kingisepp district, Leningrad Region, 188452, Russia Telephone : +7 (81375) 9-51-91 E-mail address : Info KSP@eurochem.ru : AB "Lifosa" Only representative Juodkiskio 50, LT-57502 Kedainiai, Lithuania Telephone : + (370 347) 66 483 E-mail address : info@lifosa.com 1.4 Emergency telephone number Austria: Poison Control Centre, Tel.: (+43)-1-406-43-43; Belgium: Belgisch Antigifcentrum, Tel.: 070/245-245; Bulgaria: Многопрофилна болница за активно лечение и спешна медицина "Н.И.Пирогов", Tel.: (+359)-2-9154-409: Croatia: Poison Control Centre, Tel: (+385)-1-23-48-342; Czech Republic: Toxikologické informační středisko Telefon: (+420)-224-919-293, Denmark: Poison Control Hotline, Tel.: (+45)-82-12-12: Estonia: National emergency telephone number: 112 or Poison information telephone number: 16662. calling from abroad: (+372)-626-93-90: Finland: Poison Information Centre, Tel.: (09)-471-977 (direct) or (09)-4711; France: ORFILA (INRS): (+33)-(0)-1-45-42-59-59; Hungary: Az Egészségügyi Toxikológiai Tájékoztató Szolgálat elérhetőségei Tel: (+36)-80-201-199; Latvia: Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs, Tel.: (+371)-67042473: Lithuania: Sveikatos apsaugos ministerijos ekstremalių sveikatai situacijų centras, Tel.: (+370)-5-236-20-52 or (+370)-687-53378; Malta: Mater Dei Hospital, Tel: 2545-0000; Portugal: Centro de Informação Antivenenos (Portuguese Poison Centre), Tel: 808-250-143; Romania: Biroul RSI Si Informare Toxicologica, Tel.: 021-318-36-06 (direct) (8.00 - 15.00); Slovak Republic: National Toxicological Information Centre (+421)-2-5477-4166; (+420)-224-915-402; 1/11

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Sweden: 112.

Note: please, consult with your local/national competent authorities for the emergency number in your country.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to REGULATION (EC) No 1272/2008

The product does not need to be classified in accordance with REGULATION (EC) No 1272/2008. Not a hazardous substance or mixture according to REGULATION (EC) No 1272/2008.

2.2 Label elements

Labeling according to REGULATION (EC) No 1272/2008

The product does not need to be labelled in accordance with REGULATION (EC) No 1272/2008. Not a hazardous substance or mixture according to REGULATION (EC) No 1272/2008.

2.3 Other hazards

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The product is a preparation within the meaning of the REACH Regulation (1907/2006/EC). The following table contains the main constituent at the top.

Chemical Name	Concentra- tion, wt. %	CAS-No	EC-No / Registration number	Index-No	GHS
Diammonium hy- drogenortho- phosphate	70 – 80	7783-28-0	231-987-8 / 01-2119490974-22-0002	Not available	Not classified
Ammonium dihy- drogenorthophos- phate	5 – 15	7722-76-1	231-746-5 / 01-2119488166-29-0002	Not available	Not classified
Ammonium sulphate	8 – 12	7783-20-2	231-984-1 / 01-2119455044-46-0015	Not available	Not classified
Magnesium hy- drogenortho- phosphate	1 – 5	7757-86-0	231-823-5	Not available	Not classified

SECTION 4: FIRST AID MEASURES

General advice	the case of accident or if you feel un ce immediately (show the label when eds to protect himself. Move out of of re anything by mouth to an unconso ntaminated clothing and shoes immediated	e possible). First aider dangerous area. Never cious person. Take off
Inhalation	breathed in, move person into fresh d at rest. If not breathing, give artificia g is difficult, give oxygen. Consult a ph	al respiration. If breath-

	e	
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Skin contact Eye contact	of water. Consult a physiciar : Protect unharmed eye. If ea	ely flush skin with soap and plenty n. asy to do, remove contact lens, i h plenty of water for at least 15
	minutes and consult a physic	
Ingestion		ng on his back, place him in the outh with water. Consult a physi-
4.2 Most important symptom	s and effects, both acute and	delayed
Ingestion may cause gastrointe	estinal irritation, nausea, vomiting	g and diarrhea.
4.3 Indication of any immedia	ate medical attention and spec	cial treatment needed
No data available.		
CTION 5: FIRE-FIGHTING M		
STON 5. FIRE-FIGHTING M	IEASURES	
5.1 Extinguishing Media	IEASURES	
		sistant foam, dry chemical or car
5.1 Extinguishing Media Suitable extinguishing media	: Use water spray, alcohol-re	sistant foam, dry chemical or car
5.1 Extinguishing Media Suitable extinguishing media	 Use water spray, alcohol-rebon dioxide. rom the substance or mixture Hazardous decomposition p 	roducts may be formed under fire Exposure to decomposition prod
 5.1 Extinguishing Media Suitable extinguishing media 5.2 Special hazards arising from the second seco	 Use water spray, alcohol-rebon dioxide. rom the substance or mixture Hazardous decomposition p conditions (see section 10). 	roducts may be formed under fire Exposure to decomposition prod
 5.1 Extinguishing Media Suitable extinguishing media 5.2 Special hazards arising for Specific hazards 5.3 Advice fire fighters 	 Use water spray, alcohol-rebon dioxide. rom the substance or mixture Hazardous decomposition p conditions (see section 10). ucts may be a hazard to heat 	roducts may be formed under fire Exposure to decomposition prod lth.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedure

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Remove all sources of ignition. Avoid contact with skin and eyes. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid dust formation.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Refer to special instructions.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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6.4 Reference to other sections

See Section 7, 8, 11, 12 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	:	For personal protection see section 8. Avoid contact with skin and eyes. Avoid formation of dust. Provide appropriate ex- haust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from com- bustible material. Do not carry cloths that have come into con- tact with the product in your clothing. Handle with care. Avoid exposure - obtain special instructions before use.
Advice on protection against	:	Normal measures for preventive fire protection. Keep away

from heat and sources of ignition.

7.2 Conditions for safe storage including any incompatibilities

	-	
Requirements for storage areas and containers	:	Store in a place accessible by authorized persons only. Keep locked up or in an area accessible only to qualified or author- ized persons. Store in cool place. Store in polyethylene or paper bags (container) or not packaged in special storage areas. Keep container tightly closed in a dry and well- ventilated place.
Further information on stor- age conditions	:	Protect from moisture.
Advice on common storage	:	Keep away from food, drink and animal feeding stuffs. Incom- patible with acids and bases. Do not store near combustible materials, organic matter, and other types of fertilizers.
Storage period	:	Unlimited.
7.3 Specific end use(s)		

No data available.

fire and explosion

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No	Control parameters	Basis	Country
Ammonium sulphate	7783-20-2	TWA: 10.0 mg/m ³	НАРЕДБА № 13	Bulgaria
Diammonium hy- drogenorthophosphate	7783-28-0	TWA: 6 mg/m ³ (limit value – 8 hours)	MK 01.02.2011. Nr.92	Latvia

PNEC (Predicted No effect Concentration)

PNEC aqua - freshwater:

Ammonium dihydrogenorthophosphate	:	1.7 mg/l
Diammonium hydrogenortho-phosphate	:	1.7 mg/l

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Ammonium sulphate <u>PNEC aqua – marine water:</u>	: 0.312 mg/l		
Ammonium dihydrogenorthophosphate Diammonium hydrogenortho-phosphate Ammonium sulphate	: 0.17 mg/l : 0.17 mg/l : 0,0312 mg/l		
PNEC aqua – intermittent releases:			
Ammonium dihydrogenorthophosphate Diammonium hydrogenortho-phosphate Ammonium sulphate	: 17.0 mg/l : 17.0 mg/l : 0.53 mg/l		
PNEC sediment – freshwater:			
Ammonium sulphate	: 0.063 mg/l		
PNEC soil:			
Ammonium sulphate	: 62.6 mg/kg soil dv	N	
PNEC STP:			
Ammonium dihydrogenorthophosphate Diammonium hydrogenortho-phosphate Ammonium sulphate	: 10 mg/l : 10 mg/l : 16.18 mg/l		
DNEL (Derived No Effect Level)/DMEL (Deri	ved Minimal Effect Le	vel)	
Worker			
Long-term exposure systemic effects, dermal			
Ammonium dihydrogenorthophosphate Diammonium hydrogenorthophosphate Ammonium sulphate	: 34.7 mg/kg bw/da : 34.7 mg/kg bw/da : 42.667 mg/kg bw/	iy	
Long-term exposure systemic effects, inhalatic	<u>on</u>		
Ammonium dihydrogenorthophosphate Diammonium hydrogenorthophosphate Ammonium sulphate	: 6.1 mg/m ³ : 6.1 mg/m ³ : 11.167 mg/m ³		
General population			
Long-term exposure systemic effects, dermal			
Ammonium dihydrogenorthophosphate Diammonium hydrogenorthophosphate Ammonium sulphate	: 20.8 mg/kg bw/da : 20.8 mg/kg bw/da : 12.8 mg/kg bw/da	iy	
Long-term exposure systemic effects, inhalati	on		
Ammonium dihydrogenorthophosphate Diammonium hydrogenorthophosphate Ammonium sulphate	: 1.8 mg/m ³ : 1.8 mg/m ³ : 1.667 mg/m ³		
Long-term exposure systemic effects, oral			
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5	/ 11		

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innioniun prospri	Revision Date 20.02.2016	Version 3.0	EU/ EN
Ammonium dihydrogenorth Diammonium hydrogenorth Ammonium sulphate	ophosphate : 2.1 mg/kg bw/da	iy iy	
8.2 Exposure controls			
Engineering measures			
Provide sufficient air exchar	nge and/or exhaust in work rooms. Highly	effective exhaust	t ventilation
Personal protective equip	ment		
Respiratory protection	: Half mask with a particle filter P1 ((EN 143).	
Remarks	: Use respirators and components appropriate government standards		oved under
<u>Hand protection</u> Material	: Combo gloves.		
Remarks	: Choose gloves to protect hands a on the concentration and quantity and specific to place of work. F recommend clarifying the resist aforementioned protective gloves	of the hazardous For special applic tance to chemic	substance ations, we als of the
Eye protection	: Tightly fitting safety goggles.		
Remarks	: Use equipment for eye protection appropriate government standards		
Skin and body protection	: Impervious clothing.		
Remarks	: Choose body protection according tration of the dangerous substance		
<u>Hygiene measures</u>	 Handle in accordance with good in practice. General industrial hygiene practice. Avoid formation of dust. Avoid contact with skin, eyes and When using do not eat, drink or sr Wash hands before breaks and at Follow the skin protection plan. Wash contaminated clothing before 	e. clothing. noke. the end of workd	
Environmental exposure of	controls		
No data available.			
CTION 9: PHYSICAL AND	CHEMICAL PROPERTIES		
9.1 Information on basic r	hysical and chemical properties		
Form Colour Odour	: Granulated. : From white to black. : Faint.		

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Odor threshold Flash point Lower explosion limit Upper explosion limit Explosive properties Flammability Oxidizing properties Self-ignition temperature Melting point/range pH Boiling point/boiling range Vapor pressure Density Bulk density Water solubility Partition coefficient: n- octanol/water Solubility in other solvents Viscosity, dynamic Viscosity, kinematic Relative vapor density Evaporation rate Decomposition temperature 9.2 Other information No data available.	 No data available. No data available. No data available. No data available. Non explosive. Non explosive. Non oxidising. No data available. No data available. 6 - 7 (1 % aqueous solution) No data available. 0.0762 Pa at 20 °C Not applicable. Approximately 1000 kg/m³, d 588 g/l at 15 °C Not applicable. No data available. 155 °C 	epends on granulometr ce is a solid at room ter quids. ce is a solid at room ter	mperature.
 SECTION 10: STABILITY AND I 10.1 Reactivity No data available. 10.2 Chemical stability No decomposition if stored and 10.3 Possibility of hazardous No data available. 10.4 Conditions to avoid Protect from moisture. 10.5 Incompatible materials Materials to avoid 10.6 Hazardous decomposition products 	 applied as directed. reactions : Acids and bases, combustible types of fertilizers. 	c fumes possible in	cases of
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5/830, Regulation (EC mmonium phos				
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Thermal decomposition		: 155 °C		
TION 11: TOXICOLO	GICA	L INFORMATION		
11.1 Information on to	icolo	gical effects		
Acute toxicity				
Acute oral toxicity				
Ammonium	dihy-	: LD ₅₀ (rat): > 2,000 mg/kg		
drogenorthophosphate Ammonium sulphate		: LD ₅₀ (rat): 4,250 mg/kg		
Diammonium	hy-	: LD_{50} (rat): > 2,000 mg/kg		
drogenorthophosphate				
Acute inhalation toxicity				
Ammonium	dihy-	: LC_{50} (rat): > 5,000 mg/m ³		
drogenorthophosphate Ammonium sulphate		Exposure time: 4 h : LC ₅₀ (rat): 1,000 mg/m ³		
·		Exposure time: 4 h		
Diammonium drogenorthophosphate	hy-	: LC ₅₀ (rat): > 5,000 mg/m ³ Exposure time: 4 h		
Acute dermal toxicity Ammonium	dihy-	: LD ₅₀ (rabbit): > 5,000 mg/kg		
drogenorthophosphate Ammonium sulphate		: LD ₅₀ (rat): > 2,000 mg/kg		
Diammonium drogenorthophosphate	hy-	: LD ₅₀ (rat): > 5,000 mg/kg		
Acute toxicity (other rout	es of a	administration)		
No data available.				
Skin corrosion / irritati	on			
Skin irritation		: Non-irritating.		
Serious eye damage / e	eye irr	itation		
Eye irritation		: Non-irritating.		
Sensitization of the res	pirato	ory / skin		
Skin sensitization		: Non skin sensitizing.		
Respiratory sensitization	<u>l</u>	: Non respiratory sensitizing.		
Mutagenicity				
No mutagenic effect.				
Carcinogenicity				
No carcinogenic effect.				
Reproductive toxicity				

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mmonium phospha	Revision Date 20.02.2016	Version 3.0	EU/ EN
No reproductive effect.			
Teratogenicity			
No data available.			
Specific target organ toxici	ty after single exposure		
nhalation of dust may cause	irritation of respiratory tract.		
Specific target organ toxici	ty after repeated exposure (sub-	acute / sub-chronic)	
Repeated dose toxicity: (sub-	acute/ sub-chronic)		
drogenorthophosphate Diammonium hy drogenorthophosphate Ammonium sulphate	 Exposure time: 6 weeks NOAEL (sub-acute; rat): 250 Exposure time: 6 weeks NOAEL (chronic; rat): 256 m Route of application: oral Exposure time: 52 weeks NOAEC (sub-acute; rat (make Route of application: inhalatio Exposure time: 14 days (8 h/ 	g/kg bw/day e): 300 mg/m ³ on	
Aspiration hazard	,		
No data available.			
Neurological effects			
No data available.			
Toxicology, metabolism, di	stribution		
No data available.			
	NFORMATION		
No data available.	NFORMATION		
No data available. TION 12: ECOLOGICAL I 12.1 Toxicity Toxicity to fish:	 LC₅₀ (Oncorhynchus mykiss) Exposure time: 96 h 	00 mg/l	
No data available. TION 12: ECOLOGICAL I 12.1 Toxicity Toxicity to fish: Ammonium dihy- drogenorthophosphate Diammonium hydrogenortho- phosphate Ammonium sulphate	 LC₅₀ (Oncorhynchus mykiss) Exposure time: 96 h LC₅₀ (Cirrhinus mrigala): 1,70 Exposure time: 96 h LC₅₀ (Oncorhynchus mykiss) Exposure time: 96 h 	00 mg/l	
No data available. TION 12: ECOLOGICAL I 12.1 Toxicity <u>Toxicity to fish:</u> Ammonium dihy- drogenorthophosphate Diammonium hydrogenortho- phosphate	 LC₅₀ (Oncorhynchus mykiss) Exposure time: 96 h LC₅₀ (Cirrhinus mrigala): 1,70 Exposure time: 96 h LC₅₀ (Oncorhynchus mykiss) Exposure time: 96 h 	00 mg/l : 53 mg/l	

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Toxicity to aquatic plants:			
Diammonium hydrogenortho- : phosphate Ammonium dihy- : drogenorthophosphate	Exposure time: 72 h	. , .	
Long-term study fish/daphnia and	d other aquatic invertebrates/aqua	atic plants	
Ammonium sulphate : Diammonium hydrogenortho- : phosphate Ammonium dihy- : drogenorthophosphate	NOEC (Hyalella azteca): 3.12 Exposure time: 10 weeks NOEC (Pseudokirchnerella sul Exposure time: 3 days NOEC (Pseudokirchnerella sul Exposure time: 3 days	bcapitata): 100 mg/l	
12.2 Persistence and degradab	ility		
Biodegradability :	Not applicable.		
12.3 Bioaccumulation potential No data available.	I		
12.4 Mobility in soil No data available.			
	at and vDvD		
12.5 Results of PBT assessmer No data available.			
12.6 Other adverse effects			
	Not included.		
Additional ecological infor- : mation	The product should not be allow courses or the soil.	wed to enter drains, w	ater
CTION 13: DISPOSAL CONSI	DERATIONS		
13.1 Waste treatment methods			
Advice on disposal and : packaging	Disposal: In accordance with local and n pose of waste into sewer. This be disposed of in a safe way. I household waste. Waste code user based on the application fo	material and its conta Do not dispose of tog es should be assigned	ainer mus ether with ed by the
CTION 14: TRANSPORT INFO	RMATION		
ADR Not dangerous goods RID			

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IMDG

Not dangerous goods

Special precautions for the user

See Section 6, 7 and 8

SECTION 15: REGULATORY INFORMATION

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

Special labelling of certain : Restricted to professional users. mixtures Seveso Directive : Directive 2012/18/EU does not apply. (2012/18/EU)

15.2 CSA

The Chemical Safety Assessment was not undertaken. The production is a preparation.

SECTION 16: OTHER INFORMATION

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.