

In accordance with Regulation (EC) 1907/2006 (REACH), Annex II, and amended with Regulation (EC) 2020/878

1. IDENTIFICATION OF THE SUB	STANCE AND COMPANY
1.1 Product identifier	
Trade name:	NP 20-20/ NP 18-38/ NP 15:25+(S)
Other names:	Complex mineral fertilizers
Chemical name:	Not applicable
INDEX number as listed in Annex VI of CLP:	Not applicable
ID number of the C&L inventory:	Not listed/ not applicable
CAS number:	Not applicable/ reaction mixture
EC number:	Not applicable/reaction mixture
REACH registration no(s):	
Ammonium dihydrogen orthophosphate	01-2119488166-29-0020
Diammonium hydrogen orthophosphate	01-2119490974-22-0016
Ammonium sulphate	01-2119455044-46-0172
1.2 Relevant identified uses of the subs	tance or mixture and uses advised against
Uses:	Uses by workers in industrial conditions:
	1: Production of the substance, including loading and unloading, packaging, storage and laboratory agent.
	2: Formulation and synthesis (including transfer from vessel to vessel, formulation of goods and mixtures).
	3: Formulation of fertilizers, including mixing, packaging, dilution, loading and unloading activities and addition of micronutrients.
	4: For the production of solid / liquid fertilizers
	5: Use as a laboratory chemical
	Uses by professionals:
	6: Formulation of fertilizers, including mixing, packaging, dilution, loading / unloading and addition of micronutrients and / or additives.
	7: Formulation and synthesis of all kinds
	8: Use as a dietary supplement - for professional workers
	Consumption:
	9: Consumer end use - use as solid fertilizer - surface spreading in garden areas
	10: Consumer end use - dilution of liquid fertilizers - surface spreading in garden areas
	11: Consumer end use - as a fertilizer in greenhouses (including for pH control of solutions of fertilizers in acids).
Uses advised against:	No information available.



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1.3 Details of th	e supplier of the safety of	data sheet
Manufacturer/Im	oorter/Supplier:	AGROPOLYCHIM AD BULGARIA Industrial zone 9160, DEVNYA Tel: +359 / 519 97 419 URL website: www.agropolychim.bg
Sheet (with e-ma		Eng. Miroslava Tsvetkova AGROPOLYCHIM AD BULGARIA Industrial zone 9160, DEVNYA Tel.: +359 / 519 97 419, 553 Email: m.tsvetkova@agropolychim.bg
1.4 Emergency	telephone number	
	e number in Bulgaria – ue "Pirogov" Medical	+359 2 9154 233; +359 2 9154 409 (24 hours / day) Toxicology Clinique, Pirogov National Institute, Sofia
International eme	ergency phone number	112
2. HAZARDS	IDENTIFICATION	
2.1 Classification	on of the mixture	
		0-20 + 13S; NP 18-38 + 5S + (0.3Zn); NP 15-25 + 12S are tures, obtained by chemical reaction.
	accordance with Regulation	
Hazard statement(s):	Not classified	
2.2 Label eleme	nts	
Labelling in acco	rdance with Regulation 12	272/2008 (CLP)
Hazard pictograr	n(s):	NA
Signal word		NA
Hazard statement(s):	Not classified	
Precautionary statement(s):	Not classified	
2.3 Other hazar	ds	
PBT/vPvB criteria	a:	According to Annex XIII of Regulation (EC) № 1907/2006, it was not evaluated for PBT substances and vPvB was of inorganic origin.
Endocrine disrup	ting properties:	No information available. No endocrine disrupting properties are known.
Nanoforms:		This product does not contain nanoforms or nanoform-containing substances.



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Other hazards:		Not identif	Not identified.		
3. COMPOSITION / INFO	RMATION (ON INGRED	IENTS		
Mixture					
Type: Multi-composition r Phosphorus in various pro type of NP.	nixture, coi oportions, in	mplex inorg	anic fertilizer contai fur and Zinc, which o	ining nutrients Nitrogen and determines the corresponding	
Chemical name	CAS no.	EC no.	Classification acc. 1272/2008/EO	% content	
Ammonium dihydrogenorthophosphate	7722-76-1	231 -764 -5	Not classified	5-20 %	
Ammonium sulphate	7783-20-2	231-984-1	Not classified	25-35%	
Diammonium hydrogenorthophosphate	7783-28-0	231-987-8	Not classified	60-80%	
Occupational exposure limits	are given in :	Section 8.			
4. FIRST-AID MEASURES	S				
4.1 Description of first aid r	measures				
Eye contact:				water for at least 15 minutes. In	
Skin contact:		Wash the necessary	case of eye irritation - seek specialized medical attention. Wash the affected area thoroughly with soap and water. If necessary, remove clothing and wash the affected area thoroughly. If irritation persists, seek medical attention.		
Ingestion:			In case of ingestion of large quantities, seek medical advice immediately. If possible, do not leave the victim unattended.		
Inhalation:			Remove from source of exposure to dusts.		
4.2 Most important sympton	ms and offo		illness, seek medical a	ittention.	
Acute effects		Not knowr	า		
Delayed effects				osition products may cause	
•			delayed effects.		
4.3 Indication of any immed	diate medica	l attention a	nd special treatment	needed	
Note to physician: Inhalation respiratory irritation. Delayed					
5. FIRE-FIGHTING MEAS	URES				



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5.1 Extinguishing media	
Suitable extinguishing media:	Use appropriate extinguishing media. Avoid using too much water to prevent it from leaking into the sewer. Small fires: Water jet, foam, dry chemical or CO2. Large fires: Water jet, fog of foam.
Unsuitable extinguishing media:	Not known
5.2 Special hazards arising from the	substance or mixture
Heating above the decomposition point Phosphorus oxides.	t results in the formation of oxides of Nitrogen, Ammonia (NH3) and
5.3 Advice for firefighters	
Use self-contained breathing apparatu	
oco con contanioa proatiing apparata	s.
6. ACCIDENTAL RELEASE MEAS	
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6. ACCIDENTAL RELEASE MEAS	SURES e equipment and emergency procedures exposure to dust. Avoid contact with eyes. Wear suitable protective
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6. ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, protective Avoid walking on spilled product and e clothing, including respiratory protectio 6.2 Environmental precautions	SURES e equipment and emergency procedures exposure to dust. Avoid contact with eyes. Wear suitable protective
6. ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, protective Avoid walking on spilled product and e clothing, including respiratory protection 6.2 Environmental precautions Avoid contamination of water sources of water reservoirs. 6.3 Methods and material for contain Any spillage of fertilizer product should containers for safe disposal, avoid dus	Exposure to dust. Avoid contact with eyes. Wear suitable protective on. Keep away from heat. and drainage, inform the authorities in case of accidental contamination of the clean and cleaning up be cleaned immediately, swept and collected in clean and labeled ope
6. ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, protective Avoid walking on spilled product and e clothing, including respiratory protection 6.2 Environmental precautions Avoid contamination of water sources of water reservoirs. 6.3 Methods and material for contain Any spillage of fertilizer product should	Exposure to dust. Avoid contact with eyes. Wear suitable protective on. Keep away from heat. and drainage, inform the authorities in case of accidental contamination of the clean and cleaning up be cleaned immediately, swept and collected in clean and labeled ope
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6. ACCIDENTAL RELEASE MEAS 6.1 Personal precautions, protective Avoid walking on spilled product and e clothing, including respiratory protection 6.2 Environmental precautions Avoid contamination of water sources of water reservoirs. 6.3 Methods and material for contain Any spillage of fertilizer product should containers for safe disposal, avoid dus 6.4 Reference to other sections	e equipment and emergency procedures exposure to dust. Avoid contact with eyes. Wear suitable protective on. Keep away from heat. and drainage, inform the authorities in case of accidental contamination of the cleaning up the cleaned immediately, swept and collected in clean and labeled operating.

Technical measures/ Precautions:	Avoid excessive dust generation. Avoid unnecessary exposure to the atmosphere to prevent the absorption of moisture. Avoid contamination with combustible (eg diesel) and lubricants) and / or other incompatible materials. When carrying out loading and unloading activities for a longer period of time, use protective equipment such as gloves and respiratory protection. Carefully clean the equipment and facilities before handing them in for repair and / or inspection.
General occupation hygiene:	Do not eat, drink or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment when leaving contaminated areas.
7.2 Conditions for safe storage, including	g any incompatibilities
Technical measures/ Storage conditions:	Store in accordance with national and local regulations. Keep away from heat and flame. Keep away from combustible materials and substances listed in

section 10.



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	Make sure the product is not stored near hay, grain, straw, diesel fuel, etc. When stored loose, take the necessary measures to avoid mixing it with other fertilizers. Ensure high standards of storage in warehouses. Do not allow smoking and the use of open lights in storage areas. It is advisable to limit the size of the piles and to keep at least 1 m distance around the piles and packaged products. Any building used for storage must be dry and well ventilated.
Packaging materials:	Synthetic plastic materials - PP / PPE bags and packaging. Avoid using Copper.
RECOMMENDATIONS FOR THE USERS	Minimum time for a person to stay in the warehouses!
Incompatible products:	Bases, strong acids, copper and its alloys.
8. EXPOSURE CONTROLS / PERSON	AL PROTECTION
8.1 Control parameters	
Regulated occupational exposure limit values:	Not known
Recommended exposure limits for the general public and consumers (as a result of the chemical safety assessment).	There are no identified (measured) exposure limits for the reaction mixture. Based on the measured exposure limits and DNELs obtained on the population and consumers obtained from chemical safety assessments of the individual substances involved, no risk of acute toxicity leading to product classification and labelling has been identified.
8.2 Exposure controls	
Appropriate engineering controls:	The use of adequate ventilation is good industrial practice. Avoid high dust concentrations and provide ventilation where necessary so as to maintain dust concentrations in accordance with national legislation.
Environmental exposure controls:	See section 6.
Individual protection measures, such as	personal protective equipment
Respiratory protection:	If the dust concentration is high and / or the ventilation is inadequate, use suitable dust masks or a respirator with a suitable filter for the corresponding dust concentration (EN 143, 149, R / P filters).
Hands protection:	Suitable gloves (eg leather or rubber) when working with the product for a long time.
Eye protection:	Safety glasses with side shields (EN 166)
Dermal protection:	Protective work clothes
Hygiene measures:	Do not eat, drink or smoke while handling the product. Wash your hands after handling the product and before eating, smoking or using the toilet, as well as at the end of the working day.
RECOMMENDATIONS FOR THE USERS	Machine fertilization with closed doors and windows of the



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	machine cabin is recommended.	
9. PHYSICAL AND CHEMICAL PROPERTIES		
9.1 Information on basic physical and chemical properties		
Appearance:	White to grey crystals or granules.	
Odour:	Odourless or slight ammonia odour	
Melting temperature:	Depending on the composition, it may decompose before melting.	
Boiling temperature:	Not applicable, decomposes before boiling	
Flash point:	Not applicable. Do not ignite	
Flammability:	Not applicable.	
Explosive properties:	Non explosive	
Oxidizing properties:	No known oxidizing properties	
Vapour pressure at 20°C	< 1.47 x 10-3 Pa	
Relative density:	950-1150 kg/m ³	
pH (10% water solution)	7.2	
Solubility in water:	100%; easily soluble in water	
Partition coefficient n-octanol/water:	Not relevant as the substance is inorganic, considered to be low (based on high water solubility)	
Viscosity:	Not applicable to solids	
Specific conductivity:	No data	
Auto flammability / self-ignition temperature:	Based on structure, use and transport information, not expected to be a self-heating substance.	
Particle size distribution, 1 - 5 mm:	Over 98 %	
Surface tension:	Not applicable (based on structure).	
9.2 Other information		

9.2 Other information

Not known

10. STABILITY AND REACTIVITY

10.1 Reactivity: Corrosivity

It can be corrosive to iron and mild steels, aluminum, zinc and copper.

10.2 Chemical stability

Stable under recommended storage and handling conditions. Decomposes at 190 ° C.

10.3 Possibility of hazardous reactions

Avoid welding work on equipment that may contain residues of the product before it is cleaned and washed.



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10.4 Conditions to avoid

Heating above 190 °C leads to decomposition. Contamination with incompatible materials. Sources of heat and fire nearby.

10.5 Incompatible materials

Bases, strong acids, copper and its alloys.

10.6 Hazardous decomposition products

Ammonia and oxides of nitrogen and phosphorus are released by reaction with strong bases or by heating to high temperatures (see sections 2 and 9).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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ACUTE TOXICITY	
Acute oral toxicity:	Based on data from the substances involved in the reaction mixture, the product is considered non-toxic or slightly toxic
Ammonium dihydrogen orthophosphate	LD50 rats:> 2000 mg / kg bw (OECD Guideline 425)
Diammonium hydrogen orthophosphate	LD50 rats:> 2000 mg / kg bw (OECD Guideline 425)
Ammonium sulphate	LD50 rats:> 4250 mg / kg bw (OECD Guideline 425)
Acute dermal toxicity:	Based on data from the substances involved in the reaction mixture, the product is considered non-toxic or slightly toxic
Ammonium dihydrogen orthophosphate	LD50 rats:> 5000 mg / kg bw (OECD Guideline 402)
Diammonium hydrogen orthophosphate	LD50 rats:> 5000 mg / kg bw (OECD Guideline 402)
Ammonium sulphate	LD50 rats:> 2000 mg / kg bw (OECD Guideline 402)
Acute inhalation toxicity:	Based on data from the substances involved in the reaction mixture, the product is considered non-toxic or slightly toxic
Ammonium dihydrogen orthophosphate	LC50 rats:> 5000 mg / m3 (OECD 403, EC B.2 and EPA guidelines)
Diammonium hydrogen orthophosphate	LC50 rats:> 5000 mg / m3 (OECD 403, EC B.2 and EPA guidelines)
Ammonium sulphate	LC50 rats:> 1000 mg / m3 (OECD 403, EC B.2 and EPA guidelines
CORROSION / SKIN IRRITATION	
Skin irritation:	Based on data from the substances involved in the product, there are no indications of irritant effects.
Serious eye damage / Eye irritation:	Based on data from the substances involved in the product, there are no indications of irritant effects.
Respiratory irritation:	Based on data from the substances involved in the product, there are no indications of irritant effects.
RESPIRATORY AND SKIN SENSITIZAT	ION
Skin sensibilization	Based on studies and scientific data on the substances involved in the reaction mixture, there are no indications of adverse

effects. No negative effects were observed. Not considered to be



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REPRODUCTIVE TOXICITY Ammonium dihydrogen orthophosphate Diammonium sulphate Effect on fertility: NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. TOXICITY - REPEATED DOSE System effects: Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Ammonium sulphate Oral exposure: NOAEL: 255.6 mg / kg bw / day (rats) Inhalation exposure: NOAEL: 300 mg / kg bw / day (rats) - not observed Dermal exposure: no studies available. Inhalation exposure: no studies available. Dermal exposure: no data available. Inhalation exposure: no data available. Inhalation exposure: no data available.		sensitizing.
Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Effect on fertility: NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. TOXICITY - REPEATED DOSE System effects: Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Oral exposure: NOAEL: 255.6 mg / kg bw / day (rats) Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - observed Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - not observed Dermal exposure: no studies available. Inhalation exposure: no data available.	Respiratory sensitization	No available information
Diammonium hydrogen orthophosphate Ammonium sulphate Effect on fertility: NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. TOXICITY - REPEATED DOSE System effects: Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium hydrogen orthophosphate Oral exposure: NOAEL: 255.6 mg / kg bw / day (rats) Inhalation exposure: NOAEL 256 mg / kg bw / day (rats) Oral exposure: NOAEL 300 mg / kg bw / day (rats) - not observed Inhalation exposure: no studies available. Inhalation exposure: no studies available. Dermal exposure - no data available. Inhalation exposure: no data available. Inhalation exposure: no data available.	REPRODUCTIVE TOXICITY	
Ammonium sulphate Effect on fertility: NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. TOXICITY - REPEATED DOSE System effects: Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium sulphate Dermal exposure: NOAEL: 255.6 mg / kg bw / day (rats) Inhalation exposure: NOAEC: 451.2 mg / kg bw / day (rats) Oral exposure: NOAEL 256 mg / kg bw / day (rats) - observed Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - not observed Local effects: Dermal exposure: no studies available. Inhalation exposure: no data available.	Ammonium dihydrogen orthophosphate	
Effect on fertility: NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. TOXICITY - REPEATED DOSE System effects: Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium sulphate Dermal exposure: NOAEL: 255.6 mg / kg bw / day (rats) Inhalation exposure: NOAEL: 300 mg / kg bw / day (rats) - observed Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - not observed Local effects: Dermal exposure: no studies available. Inhalation exposure: no data available. Inhalation exposure: no data available. Inhalation exposure: no data available.	Diammonium hydrogen orthophosphate	
NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive observed; dermal and inhalation exposure - no information available. NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. TOXICITY - REPEATED DOSE System effects: Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium sulphate Dermal exposure: NOAEL: 255.6 mg / kg bw / day (rats) Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - observed Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - not observed Local effects: Dermal exposure: no studies available. Inhalation exposure: no data available. OTHER ADVERSE EFFECTS	Ammonium sulphate	
NOAEL in rats (P and F) ≥ 1,500 mg / kg lw / day, reproductive toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information available. TOXICITY - REPEATED DOSE System effects: Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Diammonium sulphate Dermal exposure: NOAEL: 255.6 mg / kg bw / day (rats) Inhalation exposure: NOAEL 256 mg / kg bw / day (rats) - observed Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - not observed Local effects: Dermal exposure: no studies available. Inhalation exposure: no studies available. Dermal exposure: no data available. Inhalation exposure: no data available.	·	toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information
System effects: Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Ammonium sulphate Oral exposure: NOAEL 255.6 mg / kg bw / day (rats) Inhalation exposure: NOAEL 256 mg / kg bw / day (rats) Oral exposure: NOAEL 256 mg / kg bw / day (rats) - observed Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - not observed Local effects: Dermal exposure: no studies available. Inhalation exposure: no data available. Inhalation exposure: no data available. OTHER ADVERSE EFFECTS	·	toxicity; Human - oral exposure: no adverse effects were observed; dermal and inhalation exposure - no information
Ammonium dihydrogen orthophosphate Diammonium hydrogen orthophosphate Ammonium sulphate Dermal exposure: NOAEL: 255.6 mg / kg bw / day (rats) Inhalation exposure: NOAEL 256 mg / kg bw / day (rats) - observed Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - not observed Local effects: Dermal exposure: no studies available. Inhalation exposure: no data available. Dermal exposure: no data available. Inhalation exposure: no data available. OTHER ADVERSE EFFECTS	TOXICITY - REPEATED DOSE	
Diammonium hydrogen orthophosphate Ammonium sulphate Oral exposure: NOAEL 256 mg / kg bw / day (rats) - observed Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - not observed Local effects: Dermal exposure: no studies available. Inhalation exposure: no data available. OTHER ADVERSE EFFECTS	•	
Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - not observed Local effects: Dermal exposure: no studies available. Inhalation exposure: no studies available. Dermal exposure - no data available. Inhalation exposure: no data available. OTHER ADVERSE EFFECTS		
Inhalation exposure: no studies available. Dermal exposure - no data available. Inhalation exposure: no data available. OTHER ADVERSE EFFECTS	Ammonium sulphate	Inhalation exposure: NOAEL 300 mg / kg bw / day (rats) - not
Dermal exposure - no data available. Inhalation exposure: no data available. OTHER ADVERSE EFFECTS	Local effects:	Dermal exposure: no studies available.
Inhalation exposure: no data available. OTHER ADVERSE EFFECTS		Inhalation exposure: no studies available.
OTHER ADVERSE EFFECTS		Dermal exposure - no data available.
		Inhalation exposure: no data available.
	OTHER ADVERSE EFFECTS	
	Mutagenicity:	Based on studies and scientific data on the substances involved in the reaction mixture, there are no indications of adverse effects. in vitro: Negative (OECD Guidelines 473 and 471)
Diammonium hydrogen orthophosphate in vivo: No genotoxicity tests are required, as all in vitro ones show the absence of genotoxic properties.		
Ammonium sulphate No adverse effects on mutagenicity were observed	Ammonium sulphate	
Respiratory irritation: No data available.	Respiratory irritation:	No data available.
Carcinogenicity: No data available.	Carcinogenicity:	No data available.
12. ECOLOGICAL INFORMATION	12. ECOLOGICAL INFORMATION	
12.1 Toxicity		
Fish (acute): Phosphates: Ammonium sulphate 96-h LC50:> 100 mg / I (OECD Guideline 203) 96-h LC50: 56 mg / I (OECD Guideline 203)	·	



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Fish (long-term):	No data available.
Daphnia carinata (acute): Phosphates:	Based on reliable studies performed with similar substances in the phosphate category, 48h-EC50 is> 100 mg /l.
Ammonium sulphate:	48h-EC50 e >100 mg/l
Daphnia carinata (long-term): Ammonium sulphate:	EC10 (70 days): 3.12 mg/L
Algae:	EC50/LC50 fresh water: >100 mg/L
No Observed effect NOEC concentration level:	EC10/LC10 or NOEC fresh water: 100 mg/L
Ammonium sulphate:	EC50 (30 min) 1.618 g/L
12.2 Persistence and degradability	Fasily degradable by microsynaniams
Biodegradation:	Easily degradable by microorganisms.
Photolysis:	Does not photodegrade.
12.3 Bioaccumulative potential	
Octanol-water partition coefficient (Kow):	Not relevant as the substance is inorganic, but considered to be low (based on high water solubility)
Bioconcentration factor (BCF):	Not applicable
12.4 Mobility in soil	
Adsorption coefficient:	Low potential for adsorption (based on substance properties).
12.5 Results of PBT and vPvB assessme	ent
bioaccumulation and toxicity) and vPvB (high	nic substance, no assessment is required for PBT (resistance, ph resistance and bioaccumulation) according to Annex XIII.
12.6. Endocrine disrupting properties	
There is no clinical evidence, for endocrine	disrupting properties.
13. DISPOSAL CONSIDERATIONS	
Waste from residues:	Depending on the degree and type of pollution, treat either as a fertilizer for agriculture or as a raw material for the production of liquid fertilizer or treat in authorized facilities.
	Do not dispose of the material in the sewage system, treat the material and its packaging in a safe manner and in accordance with applicable local and national regulations.
	See classes 06 03 and 06 10 of the list of wastes (Commission Decision 2000/532 / EC)
Packing / bags:	Clean the emptied packages as well as possible by shaking them carefully.
	If permitted by local authorities, empty packages may be reused or returned for recycling.



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14. TRANSPORT INFORM	MATION	
UN Number:	ADR/RID: Non classified	
	ADN/ADNR: Non classified	
	IMDG: Non classified	
	ICAO/IATA: Non classified	
Proper shipping name:	Complex Mineral Fertilizer NP 20-20 +13S	
	Complex Mineral Fertilizer NP 18-38 +5S	
	Complex Mineral Fertilizer NP 18-38 +5S +0.3Zn	
Transport hazard classes:	Not classified	
Maritime transport of goods in (MARPOL 73/78; IMO)	bulk Not classified	
Packaging group:	Not applicable	
Special precautions:	Not identified	
15. REGULATORY INFO	RMATION	
15.1 Safety, health and environment	\	
regulation/legislation specific substance or mixture:	for the European Regulation on fertilizing products	
15.2 Chemical safety assess	The substance is not classified as dangerous according to the criteria of Regulation 1272/2008/EU on Classification, Labelling and Packaging of Substances and Mixtures (CLP Regulation) and therefore according to Clause 14 (4)) of the REACH Regulation does not require exposure and chemical safety assessment.	
16. OTHER INFORMATIO		
information as of the date of use, processing, storage, traiquality specification. The info	this safety data sheet is accurate, using our best knowledge, beliefs and its publication. This information is provided only as a guide for the safe handling asportation, disposal and discharge, and cannot be considered as a guarantee or ormation relates only to the specified specific material and may not be valid for ation with any other materials or derivatives, unless specified in the text.	
The substance is not classified	Regulation 1272/2008 as described in Annex VI: ad as dangerous according to Regulation on Classification, Labelling and ad Mixtures CLP (1272/2008 / EU).	
Revision:	02	
Revision date:	December, 2022	
	New edition	
Revision information:	New edition	