

Safety Data Sheet

In accordance with Commission Regulation (EU) No 2020/878



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Revision: 1

FLUID INORGANIC FERTILISERS PHOSPHORIC ACID LESS THAN 10%

SECTION 1		Identification of the substance/mixture and of the company/undertaking
1.1	Product identifier	
	Trade name	NUTRIFLUID (with P2O5 < 8%) NUTRIFLUID IMPULSE (with P2O5 < 8%)
	Synonyms	FLUID INORGANIC FERTILISERS
	Code	DS-055
	Chemical name	-
	Chemical formula	-
	Index Number	Not applicable
	EINECS Number	Not applicable
	CAS Number	Not applicable.
	Registration Number	It is a mixture and therefore has no registration number.
	UFI	Not applicable as the mixture is not classified as hazardous.
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Application of the substance / the mixture	Fertilizer
	Uses advised against	Others than those indicated.
1.3	Details of the supplier of the safety data sheet	ADP Fertilizantes, S.A. Avenida Termo de Lisboa, 24-30, Salgados da Póvoa Apartado 88 2616-907 ALVERCA DO RIBATEJO PORTUGAL (00351) 210 300 400 e-mail: fdsinfo@grupofertiberia.com
1.4	Emergency telephone number	SOPAC - Sociedade Produtora de Adubos Compostos S.A.- +351 265030496 (Only available during office hours; Monday-Friday; 09:00-18:00)
SECTION 2		Hazards identification
2.1	Classification of the substance or mixture according Regulation (EC) n° 1272/2008 (CLP)	This substance is not classified as dangerous according to Regulation (EC) No 1272/2008 [EU-GHS / CLP].

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2.2	Label elements	Not applicable.
	Hazard pictograms	Not applicable.
	Signal word	Not applicable.
	Hazard-determining components of labelling	Not applicable.
	Hazard statements	Not applicable.
	Precautionary statements	P102 Keep out of reach of children. P270 Do not eat, drink or smoke when using this product.
	Additional information	Acquisition, possession or use by private individuals is subject to notification.
	Supplemental information on the label	Not applicable.
	Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable.
	Special packaging requirements	Not applicable.
	Containers to be fitted with child-resistant fastenings	Not applicable.
	Tactile hazard warning	Not applicable.
2.3	Other hazards	
	Other hazards which do not result in classification	None known.
	Results of the PBT and vPvB assessment	Not applicable. Not applicable.
	Determination of endocrine disrupting properties	None substance listed.
SECTION 3	Composition/information on ingredients	
3.1	Substances	
		Not applicable.

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3.2 Mixtures							
Name	Index Number	CE number	CAS number	Registration number	%(P/P)	Classification Regulation CE N° 1272/2008	
Potassium nitrate	-	231-818-8	7757-79-1	01-2119488224-35-XXXX	0-20%	Ox. Sol. 3 H272	
Orthophosphoric acid	015-011-00-6	231-633-2	7664-38-2	01-2119485924-24-XXXX	<10%	Corr. 1 H290; Acute Tox. 4 H302; Skin Corr. 1B H314; Skin Irrit. 1B; H314: C >= 25% Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	
Additional indications		For the wording of the listed hazard phrases refer to section 16.					
SECTION 4 First aid measures							
4.1 Description of first aid measures							
General information		Provide medical assistance to those affected. People who dispense first aid are advised to wear personal protective equipment. There may be delayed effects on exposure.					
Inhalation		Remove from exposure. In severe cases, or if recovery is not rapid or complete, seek medical attention.					
Ingestion		Rinse mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell, seek medical attention.					
Skin contact		Rinse with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists, seek medical attention.					
Eye contact		Irrigate with plenty of water for at least 10 minutes. Get medical attention.					
4.2 Most important symptoms and effects, both acute and delayed							
Eye contact		Redness, itching, burning.					
Inhalation		Difficulty in breathing.					
Skin contact		No significant effects or critical hazards are known.					
Ingestion		Nausea, vomiting, coughing,					
4.3 Indication of any immediate medical attention and special treatment needed							
No action involving personal risk or without adequate training should be taken. Avoid direct mouth-to-mouth resuscitation, as it can be dangerous for the person providing the help. Use other methods for resuscitation, preferably oxygen or compressed air equipment. Treat according to the following indications:							
Notes to physician		Treat symptomatically.					
Specific treatments		There is no specific treatment. It depends on specialized medical observation.					
SECTION 5 Firefighting measures							
5.1 Extinguishing media							
The product is not flammable.							
Suitable extinguishing agents		All extinguishing media can be used.					
Unsuitable extinguishing agents for safety reasons		None.					

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5.2	Special hazards arising from the substance or mixture		
	Formation of toxic gases is possible during heating or in case of fire.		
	<table border="1"> <tr> <td>Hazardous thermal decomposition products</td> <td>When heated to decomposition, it emits toxic fumes.</td> </tr> </table>	Hazardous thermal decomposition products	When heated to decomposition, it emits toxic fumes.
Hazardous thermal decomposition products	When heated to decomposition, it emits toxic fumes.		
5.3	Advice for firefighters		
	<p>Open warehouse doors and windows for maximum ventilation.</p> <p>Fire-fighting personnel should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face mask operating in positive pressure mode. Clothing for fire-fighting personnel (including helmets, protective boots) should conform to European standard EN 469 and gloves to EN 659. It should provide a basic level of protection for chemical incidents and should be fire resistant. The facility shall have sufficient protective equipment available to deal with fires.</p>		
SECTION 6	Accidental release measures		
6.1	Personal precautions, protective equipment and emergency procedures		
	Wear protective clothing.		
	For non-emergency personnel		
	<p>Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. In case of non-flammable spills and leaks, wear vapor protective clothing. Stop leak if you can do so without risk. Keep unnecessary persons away, isolate the danger area and prevent entry. Eliminate sources of combustion.</p> <p>Keep upwind, out of low areas and ventilate confined spaces before entering. Assess the affected area to determine if evacuation is necessary. If it is necessary to evacuate the danger zone, you should follow the advice of an expert. If sheltering in place, tape windows and doors, close outside air intakes (attic fans, etc.) and place a damp towel or cloth over your face (if necessary).</p>		
	For emergency responders		
	If specialized clothing is required to deal with the spill, make note of any information on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
6.2	Environmental precautions		
	In case of accidental spills and leaks avoid dispersal of spilled material, runoff and contact with soil, watercourses (surface and groundwater), drains and sewers. Inform the competent authorities if the product has caused adverse impacts (sewers, watercourses, soil or air).		
6.3	Methods and material for containment and cleaning up		
	In case of accidental spills and leaks, avoid dispersal of spilled material. Use water spray or foam to control vapors. Make a protective barrier and ensure closure of drains with suitable containment material. Absorb with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep and shovel into suitable containers for disposal.		
6.4	Reference to other sections		
	<p>See Section 7 for information on safe handling.</p> <p>See Section 8 for information on personal protection equipment.</p> <p>See Section 13 for disposal information.</p>		

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SECTION 7	Handling and storage	
7.1	Precautions for safe handling	
	Technical precautionary measures	Wear appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering food areas. Avoid contact with eyes, skin or clothing. Do not breathe vapours or mist. Do not ingest. Avoid release to the environment. Keep in original container or approved alternative made of compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residues and may be hazardous. Do not reuse container.
	Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2	Conditions for safe storage, including any incompatibilities	
	Avoid contact and packaging with incompatible substances or mixtures. See section 10; Avoid proximity to potential sources of ignition (including electrical equipment); Store in a place that avoids adverse weather conditions (high temperatures); Avoid direct sunlight; Ensure good ventilation of the storage area. Ensure that the quantities that can be stored are not exceeded. See section 15.	
7.3	Specific end use(s)	
	Use only as described in section 1.2.	
SECTION 8	Exposure controls/personal protection	
8.1	Control parameters	
	Occupational exposure limits	There is no limit of occupational exposure value for the mixture.
	Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the need to use respiratory protective equipment. Monitoring standards such as the following may be used as reference: European Standard EN 689 (Atmospheres in the workplace. Guidelines for the evaluation of inhalation exposure of chemical agents for comparison with limit values and measurement strategy), European Standard EN 14042 (atmospheres in the workplace. Guidelines for the application and use of procedures to assess exposure to chemical and biological agents) European Standard EN 482 (atmospheres in the workplace. General requirements for the performance of procedures for measuring chemical agents). National guidance documents on methods for the determination of hazardous substances should also be used as a reference.

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Derived effect levels		No DELs available.			
Predicted effect concentrations		No PECs available.			
Ingredients with limit values that require monitoring at the workplace		CAS: 7664-38-2 phosphoric acid WEL: Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³			
DNEL					
Substance				7664-38-2	7757-79-1
				Orthophosphoric acid	Potassium nitrate
Industrial/Professional worker	Inhalation (mg/m³)	Long-term	Systemic	10,7 mg/m ³	No hazard has been identified but no further
			Local	No hazard has been identified	No hazard has been identified
		Short-term	Systemic	1 mg/m ³	No hazard has been identified but no further information is needed as no exposure is expected to occur.
			Local	2 mg/m ³	No hazard has been identified
	Dermal (mg/kg pc/día)	Long-term	Systemic	No hazard has been identified	No hazard has been identified
			Local	No hazard has been identified	No hazard has been identified
		Short-term	Systemic	Medium risk (no threshold was derived)	No hazard has been identified
			Local	Medium risk (no threshold was derived)	No hazard has been identified
	Ocular (mg/kg pc/día)	Long-term	Systemic	Not available	Not available
			Local	Not available	Not available
		Short-term	Systemic	Medium risk (no threshold was derived)	No hazard has been identified
			Local	Medium risk (no threshold was derived)	No hazard has been identified

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Consumer	Inhalation (mg/m3)	Long-term	Systemic	4,57 mg/m3	No hazard has been identified but no further information is needed as no exposure is expected to occur.	
			Local	No hazard has been identified	No hazard has been identified	
		Short-term	Systemic	0,36 mg/m3	No hazard has been identified but no further information is needed as no exposure is expected to occur.	
			Local	0,36 mg/m3	No hazard has been identified but no further information is needed as no exposure is expected to occur.	
		Dermal (mg/kg pc/day)	Long-term	Systemic	No hazard has been identified	No hazard has been identified
				Local	No hazard has been identified	No hazard has been identified
	Short-term		Systemic	Medium risk (no threshold was derived)	No hazard has been identified	
			Local	Medium risk (no threshold was derived)	No hazard has been identified	
	Oral (mg/kg pc/day)	Long-term	Systemic	0,1 mg/kg bw/d	No hazard has been identified	
			Local	Low risk (no threshold was derived)	No hazard has been identified	
		Short-term	Systemic	Not available	Not available	
			Local	Not available	Not available	
	Ocular (mg/kg pc/day)	Long-term	Systemic	Not available	Not available	
			Local	Not available	Not available	
		Short-term	Systemic	Medium risk (no threshold was derived)	No hazard has been identified	
			Local	Medium risk (no threshold was derived)	No hazard has been identified	

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PNEC

Substance	7664-38-2	7757-79-1
	Orthophosphoric acid	Potassium nitrate
Fresh water (mg/L)	No hazard has been identified	No hazard has been identified
Salt water (mg/L)	No hazard has been identified	No hazard has been identified
STP (mg/L)	No hazard has been identified	18 mg/L
Fresh water sediment (mg/L)	No hazard has been identified	No hazard has been identified
Salt water sediment (mg/L)	No hazard has been identified	No hazard has been identified
Air (mg/L)	No hazard has been identified	No hazard has been identified
Soil (mg/L)	No hazard has been identified	No hazard has been identified
Predators (secondary poisoning) (mg/L)	No hazard has been identified	The substance has no bioaccumulation potential
Components with biological limit values	Non-existent.	
Additional indications	The Occupational exposure limits lists valid during the making were used as basis.	

8.2 Exposure controls

Appropriate engineering controls	<p>As a general rule, access shall be prohibited to unauthorised personnel. The prohibition shall be posted on a clearly visible and legible sign.</p> <p>Ventilation. Storerooms and loading and unloading or transfer facilities shall be designed with natural or forced ventilation so that the risk of exposure of workers is adequately controlled. For this purpose, the design shall take special account of the characteristics of the vapours to which they may be exposed and of the source of the emissions, their collection at source and their possible transmission to the environment of the storage or installation.</p> <p>Where they are located inside buildings, ventilation shall be channelled to a safe place outside through dedicated ducts, taking into account the permissible emission levels to the atmosphere. Where forced ventilation is used, it shall be provided with an alarm system in case of failure.</p> <p>Premises with pits or basements where vapours may accumulate shall have adequate forced ventilation in such pits or basements to prevent the accumulation of vapours.</p>		
	Personal protective measures, such as personal protective equipment	General protection and hygiene measures	<p>Wash completely the hands, forearms and face after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.</p> <p>Use the appropriate techniques to remove the contaminated clothes. Wash the contaminated clothes before reusing. Verify that the eyes washing stations and safety showers were near to working stations.</p>
		Respiratory protection	<p>In case of hazardous fumes, wear self-contained breathing apparatus. See respiratory protection standard EN 137 for further information.</p>
		Hand protection	<p>Wear leather gloves to avoid frostbite injuries due to the rapid expansion of the gas when handling pressurised gas cylinders. Skin protection creams do not sufficiently protect against the substance.</p> <p>Where there is a risk of direct contact with the substance, chemical resistant gloves are required.</p>
	Glove material	Leather gloves	

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	Other	Use personal protective equipment during use and handling of the product.
	Eye/face protection	Wear chemical goggles (with indirect ventilation) when there is a possibility of contact with liquid or mist. The use of a full face shield in addition to goggles is recommended for additional protection. See eye and face protection standard EN 166 for further information. A safety shower and eye wash fountain should be provided in the ammonia handling area.
	Thermal hazards	Not available.
	Environmental exposure controls	General ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.
SECTION 9	Physical and chemical properties	
9.1	Information on basic physical and chemical properties	
	Physical state	Liquid
	Colour	Colourless
	Odour	Inodorous
	Melting point/freezing point	Not available.
	Initial boiling point and boiling range	Not available.
	Flammability	Non-flammable
	Upper/lower flammability or explosive limits	
	Lower	Not applicable due to physico-chemical characteristics
	Upper	Not applicable due to physico-chemical characteristics
	Flash point	Not applicable due to physico-chemical characteristics
	Auto-ignition temperature	It is not a fuel
	Decomposition temperature	Not available.
	pH	< 5 (In aqueous solution in 10%)
	Viscosity	
	Kinematic	Not determined.
	Dynamic	Not determined.
	Solubility	
	In water	Miscible.
	Partition coefficient: n-octanol/water	Not applicable due to physico-chemical characteristics
	Vapour pressure	Not available.
	Density and/or relative density	1.1-1.4 g/cm ³ at 20 °C
	Relative vapour density	Not available.
	Particle characteristics	Not applicable due to physico-chemical characteristics
9.2	Other information	
	Appearance	Liquid
	Explosives properties	Not explosive

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Oxidizing properties	Not available
Information with regard to physical hazard classes	
Explosives	Not applicable due to physico-chemical characteristics.
Flammable gases	Not applicable due to physico-chemical characteristics.
Aerosols	Not applicable due to physico-chemical characteristics.
Oxidising gases	Not applicable due to physico-chemical characteristics.
Gases under pressure	Not applicable due to physico-chemical characteristics.
Flammable liquids	Not applicable due to physico-chemical characteristics.
Flammable solids	Not applicable due to physico-chemical characteristics.
Pyrophobic liquids	Not applicable due to physico-chemical characteristics.
Pyrophobic solids	Not applicable due to physico-chemical characteristics.
Self-reactive substances and mixtures	Not applicable due to physico-chemical characteristics.
Substances and mixtures, which emit flammable gases in contact with water	Not applicable due to physico-chemical characteristics.
Oxidising liquids	Not applicable due to physico-chemical characteristics.
Oxidizing solids	Not applicable due to physico-chemical characteristics.
Organic peroxides	Not applicable due to physico-chemical characteristics.
Corrosive to metals	Not applicable due to physico-chemical characteristics.
Desensitised explosives	Not applicable due to physico-chemical characteristics.
Other safety characteristics	
Mechanical sensitivity	Not applicable due to physico-chemical characteristics.
Self-accelerating polymerisation temperature	Not applicable due to physico-chemical characteristics.
Formation of explosible dust/air mixtures	Not applicable due to physico-chemical characteristics.
Acid/alkaline reserve	Not applicable due to physico-chemical characteristics.
Evaporation rate	Not applicable due to physico-chemical characteristics.
Miscibility	Not applicable due to physico-chemical characteristics.
Conductivity	Not applicable due to physico-chemical characteristics.
Corrosiveness	Not applicable due to physico-chemical characteristics.
Gas group	Not applicable due to physico-chemical characteristics.

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	Redox potential	Not applicable due to physico-chemical characteristics.				
	Radical formation potential	Not applicable due to physico-chemical characteristics.				
	Photocatalytic properties	Not applicable due to physico-chemical characteristics.				
SECTION 10	Stability and reactivity					
10.1	Reactivity	Stable under recommended storage conditions.				
10.2	Chemical stability	Chemically stable under the indicated storage, handling and use conditions.				
10.3	Possibility of hazardous reactions	Not known.				
10.4	Conditions to avoid	When heated, the solution may release ammonia vapours. Welding work or work involving associated heating on equipment that has contained the product, without first washing it to remove all traces.				
10.5	Incompatible materials	Combustible materials, reducing agents, acids, bases, sodium carbonate, chlorates, chlorides, chlorides, chromates, nitrites, permanganates, metal powders and materials or substances containing metals such as copper, iron, lead, nickel, cobalt, zinc and their alloys.				
10.6	Hazardous decomposition products	In case of fire: see section 5. When heated it decomposes releasing toxic gases containing nitrogen and phosphorus oxides and ammonia. In contact with alkaline substances may release ammonia.				
SECTION 11	Toxicological information					
11.1	Information on toxicological effects					
	Acute toxicity					
	Component	CAS number	Method	Species	Route	Result
	Orthophosphoric acid	7664-38-2	OECD 423	Rat	Oral	300 < DL50 < 2000 mg/kg bw
	Potassium nitrate	7757-79-1	OECD 425 OECD 403 OECD	Rat Rat Rat	Oral Inhalation Cutaneous	DL50 > 2000 mg/kg bw. CL50: 527 mg/m ³ air DL50 > 5000 mg/kg bw
	Based on available data, the classification criteria are not met.					
	Skin corrosion/irritation					
	Component	CAS number	Method	Species	Route	Result
	Orthophosphoric acid	7664-38-2	OECD 431	Rat	Cutaneous	The substance is classified as 1B, corrosive to the skin.
	Potassium nitrate	7757-79-1	OECD 404	Rabbit	Cutaneous	Non irritant
	Based on available data, the classification criteria are not met.					

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Serious eye damage/irritation

Component	CAS number	Method	Species	Route	Result
Orthophosphoric acid	7664-38-2	Not specified	Rabbit	Ocular	Category 1. Causes serious eye damage.
Potassium nitrate	7757-79-1	Not specified	Rabbit	Ocular	Eye irritant

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Component	CAS number	Method	Species	Route	Result
Orthophosphoric acid	7664-38-2	-	-	-	Phosphoric acid is classified as corrosive to the skin, so no further study is necessary with regard to sensitization.
Potassium nitrate	7757-79-1	OECD 429	Mouse	Oral	Non sensitising

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Component	CAS number	Method	Species	Result
Orthophosphoric acid	7664-38-2	OECD 471 OECD 473 OECD 476	Bacteria Cromosomal aberration Mutation of mammal cells	Non mutagenic
Potassium nitrate	7757-79-1	OECD 479 OECD 476 EC guideline	Bacteria Cromosomal aberration Mutation of mammal cells	Non mutagenic

Based on available data, the classification criteria are not met.

Carcinogenicity

Component	CAS number	Method	Species	Route	Result
Orthophosphoric acid	7664-38-2	-	-	-	There are no available studies, however based on the available information it is concluded that the substance is not carcinogenic.
Potassium nitrate	7757-79-1	-	-	-	

Based on available data, the classification criteria are not met.

Reproductive toxicity

Component	CAS number	Method	Species	Route	Result
Orthophosphoric acid	7664-38-2	OECD 422	Rat	Oral	Effects on fertility: NOAEL > 500 mg/kg bw/d. Toxicity for the development: NOAEL > 370 mg/kg bw/d
Potassium nitrate	7757-79-1	-	-	-	-

Based on available data, the classification criteria are not met.

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STOT- single exposure

Component	CAS number	Method	Species	Route	Result
Orthophosphoric acid	7664-38-2	Not available	Not available	Not available	Not available
Potassium nitrate	7757-79-1	OECD 422	Rat	Oral	NOAEL: 1500 mg/kg bw/d

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Component	CAS number	Method	Species	Route	Result
Orthophosphoric acid	7664-38-2	Not specified	Rat	Oral	LOAEL: 155 mg/kg bw/d
Potassium nitrate	7757-79-1	OECD 422	Rat	Oral	NOAEL: 1500 mg/kg bw/d

Based on available data, the classification criteria are not met.

Aspiration hazard

Component	CAS number	Result
Orthophosphoric acid	7664-38-2	No significant effects or critical hazards are known.
Potassium nitrate	7757-79-1	No significant effects or critical hazards are known.

Based on available data, the classification criteria are not met.

11.2

Information on other hazards

Endocrine disruptive properties

Not available

Other information

Not available

SECTION 12

Ecological information

12.1

Toxicity

Aquatic toxicity

Component	N° CAS		Fish	Crustacea	Algae
Orthophosphoric acid	7664-38-2	Short term	pH lethal: 3-3,25	It is concluded that the long-term effects are caused by reduced pH CE50(72h) > 100 mg/l	CE50(48h) > 100 mg/l
		Long term	Not available		CE10/NOEC: 100 mg/l
Potassium nitrate	7757-79-1	Short term	CL50(96h): 100 mg/l	NOEC: 157 mg/l	CE50(48h): 490 mg/l
		Long term	NOEC < 245 > 408 mg/l	CE50 > 1700 mg/l	Not available

Terrestrial toxicity

Component	N° CAS	Macro-organism	Micro-organism	Terrestrial plants	Other organisms
Orthophosphoric acid	7664-38-2	Scientifically not necessary	Not necessary	A waiver is proposed for this section	-
Potassium nitrate	7757-79-1	Not available	Not available	Not available	-

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Microbiological activity in wastewater treatment plants					
Component	N° CAS	Toxicity to aquatic micro-organisms			
Orthophosphoric acid	7664-38-2	CE50(3h) > 1000 mg/l CE10/NOEC: 1000 mg/l			
Potassium nitrate	7757-79-1	CE50>1000 mg/l			
12.2	Persistence and degradability				
Component	N° CAS	Degradation			
Orthophosphoric acid	7664-38-2	Hydrolysis	Scientifically not necessary .		
		Photolysis	Not available.		
		Biodegradation	Not available.		
Potassium nitrate	7757-79-1	Hydrolysis	Potassium nitrate is an inorganic, water-soluble salt. It is a neutral salt, ions have little tendency to react with water. Hydrolysis is therefore a parameter of little relevance for this substance and the test would not be scientifically necessary.		
		Photolysis	Not available.		
		Biodegradation	It is not necessary to carry out studies of biodegradability since the substance is inorganic (Annex VII REACH). In addition, biodegradation of nitrates can occur under anaerobic conditions, both under natural and controlled conditions.		
12.3	Bioaccumulative potential				
Component	N° CAS	Octanol-water partition coefficient (Kow)	Bioaccumulation factor (BFC)	Observations	
Orthophosphoric acid	7664-38-2	Not applicable.	-	-	
Potassium nitrate	7757-79-1	-	-	Simple inorganic salts with high solubility in water exist dissociated in an aqueous solution. This type of substance has a low bioaccumulation potential.	
12.4	Mobility in soil				
Component	N° CAS	Result			
Orthophosphoric acid	7664-38-2	No information available.			
Potassium nitrate	7757-79-1	No information available.			
12.5	Results of PBT and vPvB assessment				
Not applicable.					
12.6	Endocrine disrupting properties				
The product does not contain substances with endocrine disrupting properties.					
12.7	Other adverse effects				
Significative effects or critical risks are not known.					

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SECTION 13 Disposal considerations					
13.1 Waste treatment methods					
	Methods of disposal	<p>Waste management (disposal and recovery): Consult the authorised waste manager for recovery and disposal operations, in accordance with Annex 1 and Annex 2 (Directive 2018/851/EC). Packaging: According to codes 15 01 (Commission Decision 2014/955/EU), if the packaging has been in direct contact with the product, it should be treated in the same way as the product itself, otherwise it should be treated as non-hazardous waste. Discharge into waste water is not recommended. See section 6.2. Waste management provisions: In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH), the Community or national provisions on waste management are presented. Community legislation: Directive 2018/851/EC, Commission Decision 2014/955/EU, Regulation (EU) no. 1357/2014 and the national legislation.</p>			
	Hazardous waste code	Basing on its current knowledge, the supplier does not consider this product as a hazardous waste.			
SECTION 14 Transport information					
	Regulatory information	ADR/RID	ADNR	IMDG	IATA
14.1	UN number	-			
14.2	UN proper shipping name	-		-	
14.3	Transport hazard class(es)				
	Class	-		-	
	Label	-		-	
14.4	Packing group	-			
14.5	Environmental hazards	Product not classified as hazardous to the aquatic environment.			
14.6	Special precautions for user	Not defined. See the relevant information, such as handling, in other sections of this document.			
14.7	Maritime transport in bulk according to IMO instruments	Not applicable.			
SECTION 15 Regulatory information					
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture					
	Regulation (EC) No 1907/2006 (REACH)	This product complies with the REACH Regulation.			
	SEVESO Category	Not applicable.			
	Qualifying quantity (tonnes) for the application of lower-tier requirements	Not applicable.			

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	Qualifying quantity (tonnes) for the application of upper-tier requirements	Not applicable.
	Named dangerous substances - ANNEX VI (CLP)	Contains orthophosphoric acid as entry No. 015-011-00-6 Index.
	Regulation (EC) No 1907/2006 - ANNEX XVII	Not applicable.
	REGULATION (EU) 2019/1148	
	Annex I - Restricted Explosives Precursors (Upper limit value for licensing purposes under Article 5(3))	None substance listed.
	Annex II - Reportable Explosives Precursors	CAS: 7757-79-1 potassium nitrate
	Regulation (EC) No 273/2004 on Drug Precursors	None substance listed.
	Regulation (EC) No 111/2005 laying down rules for the monitoring and trade in drug precursors between the Community and third countries.	None substance listed.
	Regulation (UE) 2019/1009	This product complies with the Fertilizer Regulation.
	Regulation (EC) No. 1272/2008 (CLP)	This product complies with the CLP Regulation.
	Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.	Not applicable.
	Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals.	Not applicable.
	PBT/mPmB Evaluation	Not applicable.
15.2	Chemical safety assessment	
	No chemical safety assessment has been performed for this substance because it is not a substance classified as hazardous.	
SECTION 16	Other information	
	Relevant phrases	H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.

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	Abbreviations and acronyms	<p>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).</p> <p>STP: Sewage treatment plant.</p> <p>OECD: Organisation for Economic Co-operation and Development.</p> <p>IMDG: International Maritime Code for Dangerous Goods.</p> <p>IATA: International Air Transport Association.</p> <p>GHS: Globally Harmonised System of Classification and Labelling of Chemicals.</p> <p>CAS: Chemical Abstracts Service (division of the American Chemical Society).</p> <p>DNEL: Derived No-Effect Level (REACH).</p> <p>PNEC: Predicted No-Effect Concentration (REACH).</p>
	Data compared to the previous version altered	<p>Change in classification of potassium nitrate.</p> <p>Correction of errors in the sections 13, 14 and 15.</p> <p>New data on the SDS supplier.</p> <p>Modification of the classification of potassium nitrate.</p>
	References	<p>This safety data sheet has been prepared in accordance with:</p> <ul style="list-style-type: none"> - ANNEX II: Guidance for the preparation of Safety Data Sheets of Regulation (EC) No 1907/2006 (Regulation (EU) 2015/830) based on the data included in the chemical safety report of registered substances. - Guidance available on the European Chemicals Agency (ECHA) website: (http://echa.europa.eu/). - Guidance for the compilation of safety data sheets for fertilizer materials (www.fertilizerseurope.com).
	Methods used for the classification of the mixture (Article 9 of Regulation (EC) No 1272/2008)	<p>Classification and Labeling in accordance with the principle of extrapolation of Regulation No. 1272/2008 (CLP).</p>
	Advice on any training appropriate for workers to ensure protection of human health and the environment	<p>Minimum training in the prevention of occupational hazards is recommended for personnel who will handle this product, in order to facilitate the understanding and interpretation of this safety data sheet, as well as the product label.</p>

The information contained in this safety data sheet is provided in good faith and its accuracy is based on knowledge of the product at the time of publication. The information presented is only intended to describe the product from the point of view of human and environmental protection and safety, and therefore cannot be regarded as product specifications. It does not imply acceptance of any commitment or legal responsibility on the part of the Company, for the consequences of its use or misuse in any circumstances. The information provided is considered accurate and current at the time of this edition, referring only to the product and may not be valid in compositions or formulations with other products. The responsibility for its use belongs to the users.