

Safety Data Sheet

In accordance with Commission Regulation (EU) No 2015/830



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Revision: 18

AMMONIUM NITRATE COMPOUND FERTILIZERS

SECTION 1		Identification of the substance/mixture and of the company/undertaking
1.1	Product identifier	
	Trade name	AMICOTE ; AMPOR, BIOTERRA, FOSFONITRO, FOSKAMONIO, NERGETIC, NITROMAX, PLUSMASTER, NG Zimactiv, NG DYN ZIMACTIV, NPK, Plusmaster
	Synonyms	NPK / NP /NK fertilizer with low ammonium nitrate content ($\leq 45\%$)
	Code	DS-003
	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.
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. Estrada Nacional nº 10 2615-907 Alverca Portugal (00351) 210 300 400 e-mail: fdsinfo@grupofertiberia.com
1.4	Emergency telephone number	SOPAC - Sociedade Produtora de Adubos Compostos(00351) 265 304 496 (Office hours only; Monday-Friday; 09:00-18:00)

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SECTION 2	Hazards identification	
2.1	Classification of the substance or mixture according Regulation (EC) n° 1272/2008 (CLP)	Eye Dam. 1 H318 Causes serious eye damage.
2.2	Label elements	
	Hazard pictograms	
	Signal word	Danger
	Hazard-determining components of labelling	Superphosphates Superphosphates, concentrated
	Hazard statements	H318 Causes serious eye damage.
	Precautionary statements	P102 Keep out of reach of children. P270 Do not eat, drink or smoke when using this product. P280 Wear eye protection / face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
	Additional information	Acquisition, possession or use by private individuals is subject to restrictions.
	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.

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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.					
SECTION 3		Composition/information on ingredients					
3.1	Substances						
	Not applicable.						
3.2	Mixtures						
	Name	Index Number	CE number	CAS number	Registration number	%(P/P)	Classification Regulation CE N^a 1272/2008
	Superphosphate	-	232-379-5	8011-76-5	-	0-90%	Eye Dam. 1 H318
	Triple superphosphate	-	266-030-3	65996-95-4	-		Eye Dam. 1 H318
	Ammonium sulphate	-	231-984-1	7783-20-2	-		Not classified
	Monoammonium phosphate	-	231-764-5	7722-76-1	-		Not classified
	Potassium chloride	-	231-211-8	7447-40-7	-		Not classified
	Potassium sulphate	-	231-915-5	7778-80-5	-		Not classified
	Ammonium nitrate	-	229-347-8	6484-52-2	-		≤ 45%
	Borax anhydrous	005-011-00-4	215-540-4	1330-43-4	-	< 4,5%	Repr. 1B H360FD Repr. 1B; H360FD: C ≥4,5
	Zinc sulphate	030-006-00-9	231-793-3	7446-19-7	-	< 0,25%	Acute Tox. 4 H302; Eye Dam. 1 H318; Aquatic Acute 1 H400; Aquatic Chronic 1 H410
	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.				

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	Inhalation	Move patient to fresh air and keep at rest in a position comfortable for breathing. Monitor for respiratory distress. If coughing or difficulty breathing, assess for airway irritation, bronchitis or pneumonitis. If able, administer supplemental oxygen with assisted ventilation as needed. Administer artificial respiration if the patient is not breathing.
	Ingestion	Do not induce vomiting; seek medical advice immediately.
	Skin contact	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
	Eye contact	Immediately remove contact lenses and flush eyes with plenty of lukewarm water for at least 15 minutes. If irritation, pain, swelling, excessive tearing or sensitivity to light persists, the patient should be seen at a health centre and referral to an ophthalmologist should be considered.
4.2	Most important symptoms and effects, both acute and delayed	
	Eye contact	Redness. Pain. Severe deep burns.
	Inhalation	Irritation of respiratory tract.
	Skin contact	Redness, burn, pain, blistering.
	Ingestion	Los síntomas adversos pueden incluir dolor de garganta, dolor de estómago, dificultad para tragar, náuseas o vómitos.
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	Water spray
	Unsuitable extinguishing agents for safety reasons	Do not use chemical extinguishers, foam or sand

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5.2	Special hazards arising from the substance or mixture	
	Possible formation of toxic gases in case of heating or fire.	
	Hazardous thermal decomposition products	At very high temperatures (> 1000°C) it decomposes to give toxic gases such as nitrogen oxides, ammonia and amines.
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	
	For non-emergency personnel	
	No action will be carried out that involves personal risk or without adequate training. Do not allow unneeded or unprotected personnel to enter. Do not touch or walk on spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Wear appropriate personal protective equipment (as indicated in section 8 of the safety data sheet). Follow local emergency procedures and the instructions of installation personnel.	
	For emergency responders	
	If specialized clothing is required to deal with the spill, note any information on suitable and unsuitable materials. See also information under "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 or soil).	
6.3	Methods and material for containment and cleaning up	
	Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.	
6.4	Reference to other sections	
	<p>See Section 1 for information on contact in case of emergency.</p> <p>See Section 8 for information on personal protection equipment.</p> <p>See Section 13 for disposal information.</p>	
SECTION 7	Handling and storage	

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7.1	Precautions for safe handling	
	Technical precautionary measures	Wear appropriate personal protective equipment. Avoid contact with eyes, skin or clothing. Do not breathe vapors or mist. Do not ingest. Avoid release to the environment. Keep in original container or approved alternative made of a compatible material, kept tightly closed when not in use. Empty containers retain product residues and may be hazardous. Do not reuse container. Avoid handling incompatible substances, see section 7.2. and 10.
	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.	

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SECTION 8		Exposure controls/personal protection				
8.1		Control parameters				
Occupational exposure limits		There is no limit of occupational exposure value.				
Recommended monitoring procedures		<p>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.</p>				
Derived effect levels		No DELs available.				
Predicted effect concentrations		No PECs available.				
Ingredients with limit values that require monitoring at the workplace		CAS: 1330-43-4 LEP Boric acid (ES): Short-term value: 6 mg/m ³ Long-term value: 2 mg/m ³ TR1B, r				
DNEL						
Substance				6484-52-2	8011-76-5	65996-95-4
				Ammonium nitrate	Simple superphosphate	Triple superphosphate
Inhalation (mg/m³)	Long-term	Systemic		36 mg/m ³	2,9 mg/m ³	2,9 mg/m ³
		Local		No hazard has been identified	No hazard has been identified	No hazard has been identified
	Short-term	Systemic		Hazards are unknown but no further information is needed as no exposure to the	No hazard has been identified	No hazard has been identified
		Local		Hazards are unknown but no further information is needed as no exposure to the	No hazard has been identified	No hazard has been identified

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Industrial/Professional worker	Dermal (mg/kg pc/día)	Long-term	Systemic	5,12 mg/kg bw/d	4,2 mg/kg bw/d	4,2 mg/kg bw/d	
			Local	No hazard has been identified	No hazard has been identified	No hazard has been identified	
		Short-term	Systemic	No hazard has been identified	No hazard has been identified	No hazard has been identified	
			Local	No hazard has been identified	No hazard has been identified	No hazard has been identified	
		Ocular (mg/kg pc/día)	Long-term	Systemic	Low risk (no threshold was derived)	Not available	Not available
				Local	Low risk (no threshold was derived)	Not available	Not available
	Short-term		Systemic	Low risk (no threshold was derived)	Medium risk (no threshold was derived)	Medium risk (no threshold was derived)	
			Local	Low risk (no threshold was derived)	Medium risk (no threshold was derived)	Medium risk (no threshold was derived)	
	Inhalation		Long-term	Systemic	8,9 mg/m ³	No hazard has been identified	0,72 mg/m ³
				Local	No hazard has been identified	No hazard has been identified	No hazard has been identified

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Consumer	(mg/m3)	Short-term	Systemic	No hazard has been identified	No hazard has been identified	No hazard has been identified
			Local	No hazard has been identified	No hazard has been identified	No hazard has been identified
	Dermal (mg/kg pc/day)	Long-term	Systemic	2,56 mg/kg bw/d	2,08 mg/kg bw/d	2,1 mg/kg bw/d
			Local	No hazard has been identified	No hazard has been identified	No hazard has been identified
		Short-term	Systemic	No hazard has been identified	No hazard has been identified	No hazard has been identified
			Local	No hazard has been identified	No hazard has been identified	No hazard has been identified
	Oral (mg/kg pc/day)	Long-term	Systemic	2,56 mg/kg bw/d	No hazard has been identified	0,42 mg/kg bw/d
			Local	No hazard has been identified	No hazard has been identified	No hazard has been identified
		Short-term	Systemic	No hazard has been identified	No hazard has been identified	Not available
			Local	No hazard has been identified	No hazard has been identified	Not available

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		Ocular (mg/kg pc/day)	Long-term	Systemic	Not available	Not available	Not available
			Local	Not available	Not available	Not available	
			Short-term	Systemic	Low risk (no threshold was derived)	Medium risk (no threshold was derived)	Medium risk (no threshold was derived)
			Local	Low risk (no threshold was derived)	Medium risk (no threshold was derived)	Medium risk (no threshold was derived)	
PNEC							
Substance					6484-52-2	8011-76-5	65996-95-4
					Ammonium nitrate	Simple superphosphate	Triple superphosphate
Fresh water (mg/L)					No hazard has been identified	No hazard has been identified	No hazard has been identified
Salt water (mg/L)					No hazard has been identified	No hazard has been identified	No hazard has been identified
STP (mg/L)					18 mg/L	No hazard has been identified	No hazard has been identified
Fresh water sediment (mg/L)					No hazard has been identified	No hazard has been identified	No hazard has been identified

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	Salt water sediment (mg/L)	No hazard has been identified	No hazard has been identified	No hazard has been identified
	Air (mg/L)	No hazard has been identified	No hazard has been identified	No hazard has been identified
	Soil (mg/L)	No hazard has been identified	No hazard has been identified	No hazard has been identified
	Predators (secondary poisoning) (mg/L)	The substance has no bioaccumulation potential	The substance has no bioaccumulation potential	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>		
	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>		

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	Personal protective measures, such as personal protective equipment	Respiratory protection	If exposure levels exceed or may exceed the recommended exposure limits, use suitable breathing apparatus e.g. mouth-face masks equipped with type K filters, self-contained breathing apparatus according to EN 136, 140 or 405.
		Hand protection	Chemical protective gloves According to standards: EN 374-1:2003 - EN 374-3:2003/AC:2006 - EN 420:2003+A1:2009. Replace gloves at any sign of deterioration.
		Glove material	PVC gloves
		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	Under EU environmental protection legislation it is recommended to avoid release of the product and its packaging into the environment. For further information see section 6.2.	
SECTION 9	Physical and chemical properties		
9.1	Information on basic physical and chemical properties		
	Appearance	Solid	
	Colour	White or gray	
	Odour	Odourless	
	Odour threshold	Not available.	
	pH	> 4.3-6 (10%)	
	Melting point/freezing point	Depending on the mixture.	
	Initial boiling point and boiling range	> 210 °C	
	Flash point	> 210 °C	
	Evaporation rate	Not available	
	Flammability	Non-flammable	
	Upper/lower flammability or explosive limits		
	Lower	Not available.	
	Upper	Not available.	
	Vapour pressure	Not available.	
	Vapour density	Not available.	

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	Relative density	1,4				
	Solubility					
	In water	Fully miscible.				
	Partition coefficient: n-octanol/water	(-)3.1 (For ammonium nitrate)				
	Auto-ignition	Not available.				
	Decomposition temperature	Not determined.				
	Viscosity					
	Kinematic	Not available				
	Dynamic	Not available				
	Explosive properties	The product is not explosive				
	Oxidising properties	Not available				
9.2	Other information	No additional information No further relevant information available.				
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	When heated or decontaminated with reducing agents, strong acids, toxic gases (oxides of nitrogen) form.				
10.4	Conditions to avoid	Temperatures above 100°C and contamination with combustible materials.				
10.5	Incompatible materials	Reducing agents, strong acids, combustible materials.				
10.6	Hazardous decomposition products	Nitrogen oxides (NOx) (in case of fire).				
SECTION 11 Toxicological information						
11.1	Information on toxicological effects					
	Acute toxicity					
	Component	CAS number	Method	Species	Route	Result
	Ammonium nitrate	6484-52-2	Not specified	Rat Mouse	Oral Subcutaneous Intravenous	DL50 = 14,3-15 g/kg bw (Rat) 11,5-13 g/kg bw (Mouse) DL50 = 8,2-9,4 g/kg bw (Rat) 9,2-10,7 g/kg bw (Mouse) DL50 = 5,3-5,4 g/kg bw (Rat) 4,6-5,2 g/kg bw (Mouse)
	Simple superphosphate	8011-76-5	OECD 425 OECD 403 OECD 402	Rat Rat Rat	Oral Inhalation Cutaneous	DL50 > 2000 mg/kg bw. CL50 > 5 mg/L air DL50 > 5000 mg/kg bw

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Triple superphosphate	65996-95-4	OECD 425 OECD 403 OECD 402	Rat Rat Rat	Oral Inhalation Cutaneous	DL50 > 2000 mg/kg bw. CL50 > 4840 mg/m ³ air DL50 > 5000 mg/kg bw
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Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2	OECD 404	Rabbit	Cutaneous	Non irritant
Simple superphosphate	8011-76-5	OECD 404	Rabbit	Cutaneous	Non irritant
Triple superphosphate	65996-95-4	OECD 404	Rabbit	Cutaneous	Non irritant

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

Serious eye damage/irritation

Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2	OECD 405	Rabbit	Ocular	Slightly irritant
Simple superphosphate	8011-76-5	Not specified	Rabbit	Ocular	Category 1. Causes serious eye damage.
Triple superphosphate	65996-95-4	Not specified	Rabbit	Ocular	Category 1. Causes serious eye damage.

Causes serious eye damage.

Respiratory or skin sensitisation

Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2	-	-	-	There are no available studies
Simple superphosphate	8011-76-5	OECD 429	Mouse	Cutaneous	Non sensitising
Triple superphosphate	65996-95-4	OECD 429	Mouse	Cutaneous	Non sensitising

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

Germ cell mutagenicity

Component	CAS number	Method	Species	Result
Ammonium nitrate	6484-52-2	OECD 473 OECD 476	Bacteria Cromosomal aberration Mutation of mammal cells	Non mutagenic
Simple superphosphate	8011-76-5	OECD 471 Not specified	Bacteria Mutation of mammal cells	Non mutagenic

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Triple superphosphate	65996-95-4	OECD 471 OECD 473	Bacteria Mutation of mammal cells	Non mutagenic
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Based on available data, the classification criteria are not met.

Carcinogenicity

Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2	NCI - screening tests	Rat Mouse	Oral	There is no evidence that the substance is carcinogenic.
Simple superphosphate	8011-76-5	-	-	-	There are no available studies. Study scientifically not necessary.
Triple superphosphate	65996-95-4	-	-	-	Not available

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

Reproductive toxicity

Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2	Not specified	Rat	Oral	Data conclusive but not sufficient for classification. -Effects on fertility : There are no effects on fertility . -Toxicity for the development: NOAEL > 1000 mg urea/kg bw/d. Exposure to urea is highly unlikely to have negative developmental effects.
Simple superphosphate	8011-76-5	-	Rat	Oral	Effects on fertility: NOAEL: 750 mg/kg bw/d. Toxicity for the development: NOAEL: 750 mg/kg bw/d.
Triple superphosphate	65996-95-4	-	Rat	Oral	Effects on fertility: NOAEL: 1500 mg/kg bw/d. Toxicity for the development: NOAEL: 750 mg/kg bw/d.

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

STOT- single exposure

Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2	Not available	Not available	Not available	Not available
Simple superphosphate	8011-76-5	Not available	Not available	Not available	Not available

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Triple superphosphate	65996-95-4	Not available	Not available	Not available	Not available
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Based on available data, the classification criteria are not met.

STOT-repeated exposure

Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2	Not specified	Rat Mouse	Oral	NOAEL: 2250 mg/kg bw/d (Rat) NOAEL: 6750 mg/kg bw/d (Mouse) It is concluded that urea has a very low chronic toxicity.
Simple superphosphate	8011-76-5	OECD 422	Rat	Oral	NOAEL: 250 mg/kg bw/d. The substance does not have to be classified as toxic by repeated exposure.
Triple superphosphate	65996-95-4	OECD 422	Rat	Oral	NOAEL: 250 mg/kg bw/d. Data conclusive but not sufficient for classification.

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

Aspiration hazard

Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2				No significant effects or critical hazards are known..
Simple superphosphate	8011-76-5				No significant effects or critical hazards are known.
Triple superphosphate	65996-95-4				No significant effects or critical hazards are known.

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

SECTION 12 Ecological information

12.1 Toxicity

Aquatic toxicity

Component	N° CAS		Fish	Crustacea	Algae
Ammonium nitrate	6484-52-2	Short term	CL50 (48h): 447 mg/L (Cyrpinus carpio)	Not necessary	CE50 (48h): 490 mg/L
		Long term	CE50 (7d): 555 mg/L	CE50: 1700 mg/l	NOEC/CE10: 1700 mg/L
Simple superphosphate	8011-76-5	Short term	CL50: 85,9 - 1700 mg/L	Study scientifically not necessary.	CE50(72h): 1790 mg/L
		Long term	Scientifically not necessary	CE50: > 100 mg/l	CE10/NOEC: 100 mg/l

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	Triple superphosphate	65996-95-4	Short term	CL50 > 85,9 mg/l	Not available	CE50 > 100 mg/l
			Long term	Not available	CE50 > 87,6 mg/l	CE10/NOEC: 87,6 mg/l
Terrestrial toxicity						
	Component	N° CAS	Macro-organism	Micro-organism	Terrestrial plants	Other organisms
	Ammonium nitrate	6484-52-2	Not available	Not available	Not available	-
	Simple superphosphate	8011-76-5	Not available	Not available	Not available	-
	Triple superphosphate	65996-95-4	Not available	Not available	Not available	-
Microbiological activity in wastewater treatment plants						
	Component	N° CAS	Toxicity to aquatic micro-organisms			
	Ammonium nitrate	6484-52-2	CE50: 1000 mg/l CE10/NOEC: 180 mg/l			
	Simple superphosphate	8011-76-5	CE50(3h) > 100 mg/l CE10/NOEC: 100 mg/l			
	Triple superphosphate	65996-95-4	CE50(3h) > 100 mg/l CE10/NOEC: 100 mg/l			
12.2	Persistence and degradability					
	Component	N° CAS	Degradation			
	Ammonium nitrate	6484-52-2	Hydrolysis	Hydrolysis is not seen. It is not necessary.		
			Photolysis	Not necessary		
			Biodegradation	Not necessary		
	Simple superphosphate	8011-76-5	Hydrolysis	Scientifically not necessary		
			Photolysis	Scientifically not necessary		
			Biodegradation	A study was carried out to determine the photodegradation capacity of the substance. A half-life of 11 days was calculated.		
	Triple superphosphate	65996-95-4	Hydrolysis	Hydrolysis is not seen. It is not necessary.		
			Photolysis	Not necessary		
			Biodegradation	Not necessary since the substance is inorganic		
12.3	Bioaccumulative potential					
	Component	N° CAS	Octanol-water partition coefficient (Kow)	Bioaccumulation factor (BFC)	Observations	
	Ammonium nitrate	6484-52-2	Not applicable. Inorganic substance.	-	-	
	Simple superphosphate	8011-76-5	Not applicable	-	-	
	Triple superphosphate	65996-95-4	Not applicable	-	-	

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12.4	Mobility in soil				
	Component	N° CAS	Result		
	Ammonium nitrate	6484-52-2	Being an inorganic substance it has a low adsorption potential.		
	Simple superphosphate	8011-76-5	It is not necessary to carry out studies ya que las propiedades físico-químicas de la sustancia indican que esta tiene un bajo potencial de adsorción		
	Triple superphosphate	65996-95-4	It is not necessary to carry out studies ya que las propiedades físico-químicas de la sustancia indican que esta tiene un bajo potencial de adsorción		
12.5	Results of PBT and vPvB assessment				
	Not applicable.				
12.6	Other adverse effects				
	Significative effects o critics risks are not known.				
SECTION 13 Disposal considerations					
13.1	Waste treatment methods				
	Methods of disposal	<p>Waste management (disposal and recovery) :</p> <p>Consult the authorised waste manager for recovery and disposal operations, in accordance with Annex 1 and Annex 2 (Directive 2018/851/EC, Law 7/2022 of 8 April, on waste and contaminated soil for a circular economy)..</p> <p>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.</p> <p>Waste management provisions :</p> <p>In accordance with Annex II of Regulation (EC) No 1907/2006 (UK REACH), the Community or national provisions on waste management are presented.</p> <p>Community legislation: Directive 2018/851/EC, Commission Decision 2014/955/EU, Regulation (EU) no. 1357/2014 and the national legislation.</p>			
	Hazardous waste code	HP4: Irritant - skin irritation and eye damage			
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.			

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14.6	Special precautions for user	Not defined. See the relevant information, such as handling, in other sections of this document.
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
SECTION 15 Regulatory information		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	GB Regulation (EC) No 1907/2006 (REACH)	This product complies with the UK REACH Regulation.
	Named dangerous substances - ANNEX VI (CLP)	Contains zinc sulfate Index No.: 030-006-00-9 Contains anhydrous borax Index No.: 005-011-00-4
	SEVESO Category	Not applicable.
	Qualifying quantity (tonnes) for the application of lower-tier requirements	Not applicable.
	Qualifying quantity (tonnes) for the application of upper-tier requirements	Not applicable.
	Regulation (EC) No 1907/2006 - ANNEX XVII	Restriction No. 3, 65
15.2	Chemical safety assessment	
	A chemical safety assessment has not been carried out since this is a mixture.	
SECTION 16 Other information		
	Relevant phrases	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H360FD May damage fertility or the unborn child H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

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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 (UK REACH).</p> <p>PNEC: Predicted No-Effect Concentration (UK REACH).</p>
Data compared to the previous version altered	Adaptation to Regulation (EU) No. 2015/830.
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) 2020/878) 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)	Classification and Labeling in accordance with the principle of extrapolation of Regulation No. 1272/2008 (CLP).
Advice on any training appropriate for workers to ensure protection of human health and the environment	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.

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.