

Safety Data Sheet

According to Regulation (EU) No 830/2015 of the Commission

Company address

1.4

Company telephone number
Company email for SDS

Emergency telephone number

 Issue date
 28/02/2017

 Issue
 1

 Review date
 1

Review

	Ammonium Nitrate fertilizer > 70% AN and < 80% AN, with mineral calcium sulphate							
SECTION 1	Identification of the substance/mixture and of th	e company/undertaking						
1.1	Product identifier							
	Product commercial name	Ammonium nitrate from 24,6 to 27% N with sulphur (from mineral calcium sulphate).						
	Chemical name	Mixture, main ingredient Ammonium Nitrate						
	Other names	AN 24,6 to 27 with S (from mineral calcium sulphate)						
	Chemical formula	Mixture, main ingredient NH4NO3						
	EU index number (Appendix 1)	Not applicable						
	CE No	Not applicable						
	CAS No.	Not applicable						
	REACH or National product registration number	Not applicable						
1.2	Relevant identified uses of the substance or mixture and uses advised against							
	Identified uses	As a fertiliser and in the manufacture of mixtures.						
	Uses advised against	None						
1.3	Details of the supplier of the safety data sheet							
· <u> </u>	Company name	FERTIBERIA. S.A.						

Central: 91.586.62.00; Aviles factory: 985-57.78.50; Puertollano factory: 926.44.93.00; Sagunto Factory: 962.69.90.04

Aviles factory: 985-57.78.50; Puertollano factory: 926.44.93.00; Sagunto Factory: 962.69.90.04

Paseo de la Castellana, 259 D. Plantas 47 y 48 - 28046 Madrid

SECTION 2	Hazards identification								
		According to Regulation EC 1272/2008 [CLP]							
2.1	Classification of the substance or mixture*	Non-hazardous.							
2.2	2.2 Label elements	Pictograms	Signal word	Hazard statements	Precautionary Statements				
2.3	Other hazards								
	PBT/vBvP Criteria	In accordance with appendix XIII of the Regulation (EC) no. 1907/2006, it is not PBT or vPvB since it is an inorganic substance.							
	Other hazards that do not involve product class	sification _							
	Physical and chemical hazards	This product is not itself combustible but if included in a fire it will maintain a sustained combustion even in the absence of air. When strongly heated it melts. If heating continues it can reach decomposition releasing toxic fumes that contain nitrogen and ammonium oxides. These products have a high resistance to detonation. Heating under strongly confined conditions may lead to an explosive reaction.							
	Health hazards	Fertilizers are basically harmless products when handled correctly. Nevertheless, the following points should be observed: Contact with skin and eyes: Prolonged contact may cause discomfort. Ingestion: Small quantities are unlikely to cause toxic effects. Large quantities may give rise to gastro-intestinal disorders and in extreme cases (particularly in children) formation of methaemoglobin ("blue baby" syndrome) and cyanosis (indicated by blueness around the mouth) may occur. Inhalation: High concentrations of dust in the air may cause nose and upper respiratory tract irritation with sore throat and cough symtoms. Long term local effects: No adverse effects are known. Other: Fire and heating: Inhaling decomposition gases containing nitrogen and ammonium oxides can cause irritation and have corrosive effects on the respiratory system. These gases may cause delayed pulmonary oedema.							
	Environmental hazards	Ammonium Nitrate is a nitrogen fertilizer. Heavy spillage may cause an adverse environmental impact such as eutrophication (developing undesireable flora) in confined surface waters or nitrate contamination. (See section 12).							
* To understa	nd the full meaning of hazard statements (H): se	e section 16							

Version 1 dated 28.02.17 Page 1 of 6

	Ammonii	um Nitrate	fertilizer > ˈ	70% AN an	d < 80%	AN, with mineral ca	alcium sulphate			
SECTION 3	ON 3 Composition/information on ingredients									
Mixtures	Name	% (w/w)	CAS No.	IUPAC	Index No R.1272/2008	REACH Registration Number	Classification Regulation 1272/2008	Specific concentration limits		
	Ammonium nitrate	70-80%	6484-52-2	ammonium nitrate		01-2119490981-27-0028	Oxid. Solid 3 Eye Irrit. 2			
	Mineral Calcium Sulphate	20-30%	13397-24-5			Not required	Not classil	ied		
SECTION 4	First aid measures									
4.1	Description of first aid meas	sures								
	General		Seek medical attenti	on when necessary.						
	Inhalation			from the point of exp on if there are any ha						
	Ingestion		Do not induce vomiting. Rinse the mouth and give water or milk to drink. Seek medical attention if more than a small quantity has been ingested.							
	Contact with skin		Wash the affected area with water.							
	Contact with eyes		Wash or rinse the eyes with plenty of water for at least 15 minutes, including behind the eyelids. Remove contact lenses if present and easy to do. Seek medical attention if eye irritation persists.							
4.2	Most important symptoms a	Most important symptoms and effects, both acute and delayed								
	Some effects on the lungs may be delayed.									
4.3	Indication of any immediate medical attention and special treatment needed									
	Inhalation of gases, from a fire or thermal decomposition, that contain nitrogen and ammonium oxides may cause irritation and have corrosive effect the respiratory system. Administer oxygen, especially if there is blue colouring (methaemoglobin) around the mouth.									
SECTION 5	Firefighting measures	Firefighting measures								
5.1	Extinguishing media									
	Suitable extinguishing medi	ia	Water.							
	Unsuitable extinguishing me	edia	Do not use chemical or foam extinguishers or attempt to suffocate the fire with sand or mist.							
5.2	Special hazards arising from	n the substance or r	nixture							
	Special hazards		There is a potential explosion risk during the fire when the product is strongly confined and/or contaminated with incompatible materials (e.g. organic material, halogen compounds - see section 10) Prilled fertiliser must not be put in drains.							
	Thermal decomposition or phazards	product combustion	Nitrogen and ammor	rogen and ammonium oxides						
5.3	Advice for firefighters									
	Specific firefighting method	ls	Open doors and windows in the area to give maximum ventilation. Avoid breathing the smoke (toxic). Position yourself upwind of the fire. Do not contaminate the fertiliser with oils or other combustible materials.							
	Special protective equipment	nt for firefighting	Use self contained breathing apparatus in case of smoke.							
	Accidental release measures									
SECTION 6	Accidental release measure	es								

SECTION 6	Accidental release measures							
6.1	Personal precautions, protective equipment and	ersonal precautions, protective equipment and emergency procedures						
		Avoid walking on the spilt product and exposure to the dust.						
6.2	Environmental precautions							
		Take care to prevent contamination of water courses and drains and inform the competent authorities in case of accidental contamination of water courses.						
6.3	Methods and material for containment and cleaning up							
		Any spillage of fertiliser should be quickly cleaned up, swept and placed in a clean, open receptacle and labelled for safe disposal avoiding the formation of dust. Do not mix with sawdust or other combustible or organic material. Dilute any contaminated or fine grain fertiliser with inert materials such as limestone/dolomite, mineral phosphate, gypsum, sand or dissolve in water.						
6.4	Reference to other sections							
		See section 1 for contact data, section 8 for PPE and section 13 for waste disposal.						

Version 1 dated 28.02.17 Page 2 of 6

	Ammonium Nitrate	fertilizer > 70% AN and < 80% AN, with mineral calcium sulphate				
SECTION 7	Handling and storage					
7.1	Precautions for safe handling					
		Prevent the excessive generation of dust. Prevent contamination with combustible materials (e.g. gas-oil, greases, etc.) and other incompatible materials. Avoid the unnecessary exposure of the product to the atmosphere to prevent moisture absorption. When the product is handled for long periods, use appropriate personal protective equipment, e.g. gloves. Carefully clean the installations before before carrying out maintenance and repair operations.				
7.2	Conditions for safe storage, including any inco	ompatibilities				
		Store in compliance with RD 888/2006, (AF-1) regulations. Place away from sources of heat and flames. Always keep away from combustible materials and substances mentioned in section 10. In the field, ensure that the fertilizer is not stored near hay, straw, grain, gas-oil, etc. When stored in bulk, avoid mixing with other incompatible fertilizers. In the storage area, ensure that strict tidiness and cleanliness standards are complied with. Do not allow smoking or the use of naked portable lamps in the storage area. Restrict the size of piles and stacks (in accordance with regulations in force) and leave a minimum free space of 1 metre around the piles or stacks of sacks. Any building used for storage should be dry and well ventilated. When required, due to the nature of the product stored in containers and weather conditions, the product should be stored in such a way as to avoid its destruction due to thermal cycles (extreme temperature conditions). The product should not be stored in direct sunlight to prevent physical break-up due to thermal cycles.				
	Recommended and non-recommended packaging materials	Suitable materials for containers are: steel, aluminium and synthetic plastics. Do not use copper and/or zinc.				
7.3	Specific end uses					
		See section 1.2 and appendices for exposure scenarios.				
Note: stability	y and reactivity, see section 10					

SECTION 8	Exposure controls/personal protection									
8.1	Control parameters									
	lo lo		Component	CAS						
	Exposure limit values		Ammonium nitrate	6484-52-2	Not established.					
						Wor	ker	co	nsumer	
				systemic	indu	ıstrial	professional			
		5.151	oral	long term	Not ap	plicable	Not applicable	12.8 m	g/kg bw/day	
		DNEL	inhalation	long term	37.6	mg/m3	37.6 mg/m3	11.	1 mg/m3	
	Derived from the CSR		dermal	long term	21.3 mg/	Kg bw/day	21.3 mg/Kg bw/day	21.3 mg/Kg bw/day 12.8 mg/kg b		
			wa	ter	air	soil	microbiological	sediment	oral	
	PNEC		fresh water: 0.45 mg/l salt water: 0.045 mg/l in intermittent releases: 4.5 mg/l		Not available Insufficient data available		18 mg/l	Insufficient data available	Low bioaccumulative potential	
8.2	Exposure controls				•			•		
	Engineering measures and hygiene controls	Prevent high concentrations of dust and provide ventilation wherever necessary. Do not smoke or drink when handling. Wash hands after handling the product and before eating, drinking or smoking. Use the wash basin at the end of the work day.								
	Personal protection measure	s								
		Eyes	Safety glasses with side shields (EN 166) to prevent eye irritation. In dusty conditions use panoramic safety goggles.							
		Skin and body	Work clothes.							
		Use suitable gloves (for example, rubber or leather) when handling the product over long periods of time. (EN-388, EN-420).								
		Respiratory	If there is a high con	centration of dust an	d/or the ventilation	n is inadequate, us	e an anti-dust mask or respirator w	vith a suitable filter.	(EN-149)	
		Thermal								
	Environmental exposure con	trols	See section 6.							
	Advice relating to personal p			rels.						
1	Choose personal protection equipment suitable to exposure risks.									

SECTION 9	Physical and chemical properties						
9.1	Information on basic physical and chemical properties						
	Aspect	White or coloured granules or prills.					
	Colour	White or coloured					
	Odour	Odourless					
	Molecular weight	Not applicable					
	рН	pH aqueous solution (100 g/l) > 4.5.					
	Boiling point	It does not have a boiling point, it decomposes above 210°C					
	Melting point	169 ℃					
	Flash-point	Non flammable					
	Flammability	Non flammable					
	Explosive properties	If it is heated under strongly confined conditions (e.g. in pipes or drains) a violent reaction or explosion may take place, especially if there is contamination by any of the substances mentioned in section 10.					
	Auto-ignition temperature	Non flammable					
	Decomposition temperature	Begins to decompose above 170 °C					
	Lower explosive limit	Not applicable					
	Upper explosive limit	Not applicable					

Version 1 dated 28.02.17 Page 3 of 6

	Ammoniu	m Nitrate	fertilizer > 1	70% AN an	d < 80%	AN, with mineral calcium sulphate			
	Oxidising properties		Not classified as oxidising.						
	Apparent density at 20°C			950 at 1,100 kg/m³					
	Vapour pressure at 20 °C		_						
			Not applicable						
	Vapour density	Mustor	Not applicable						
	Partition coefficient n-octano	water	Not applicable						
	Viscosity		Not applicable						
	Water solubility		> 100 g/l (hygroscop						
9.2	Other information		Molecular weight 80	g/mol for the main in	gredient (ammoni	ium nitrate)			
SECTION 10	Stability and reactivity								
10.1	Reactivity		Stable under normal	conditions of storage	e, handling and us	se (see section 7)			
10.2	Chemical stability		Stable under normal	conditions of storage	e, handling and us	se (see section 7)			
10.3	Possibility of hazardous reac	tions	When it is heated ab Contamination with i			Ox and Ammonia.			
10.4	Conditions to avoid		Proximity to sources Contamination by ind Heating above 170 ° Unnecessary expose Heating when confin Welding or heating v	compatible materials. C (decomposes to gare to the atmosphered.	ases) e.	y contain fertiliser remnants, without preliminary cleaning to remove the product remnants.			
10.5	Incompatible materials		Inflammable materia containing substance			ohur, chlorates, chlorides, chromates, nitrites, permanganate, metal powders and metal- and their alloys.			
10.6	Hazardous decomposition pr	oducts		d it melts and decon		toxic gases (e.g. NOx and ammonia). ammonia gases may be produced.			
SECTION 11	Toxological information								
11.1	Information on toxological ef	fects							
111	Acute toxicity	10013							
	-	CAC No	Marate and	C	\r	Decute			
	Component	CAS No.	Method	Species	Via	Result			
	Ammonium nitrate	6484-52-2	OECD 401 OECD 402	rat rat rat	oral skin respiratory	LD50: 2950 mg/Kg bw. LD50: > 5000 mg/Kg bw. LC50: >88.8 mg/m3.			
	Skin corrosion/irritation								
	Component	CAS No.	Method	Species	Via	Result			
	Ammonium nitrate	6484-52-2	OECD 404	Rabbit	skin	Non-irritant.			
	Serious eye damage/irritation		0200 404	Rabbit	Oktii				
	-		L	I	I	<u> </u>			
	Component	CAS No.	Method	Species	Via	Result			
	Ammonium nitrate	6484-52-2	OECD 405	Rabbit	eye	Irritant			
	Respiratory or skin sensitisa	tion		•					
	Component	CAS No.	Method	Species	Via	Result			
	-			-					
	Ammonium nitrate	6484-52-2	OECD 429	mouse	skin	Non-sensitising.			
	Germ cell mutagenicity;		•	T		<u></u>			
	Component	CAS No.	Method	Species		Result			
	Ammonium nitrate	6484-52-2	OECD 471 OECD 473 OECD 476	bacteria Chromosomal aber mutation in mamma		Negative. Non-mutagenic. Ames test. Negative. Non-mutagenic. Negative. Non-mutagenic.			
	Carcinogenicity								
	Component	CAS No.	Method	Species	Via	Result			
	Ammonium nitrate	6484-52-2		rat	All	Non carcinogenic.			
	Reproductive toxicity	1		l	L				
	Component	CAS No.	Method	Species	Via	Result			
	Component	3A3 NO.	cuiod	- poolea	·Iu	-Effects on fertility:			
	Ammonium nitrate	6484-52-2	OECD 422	rat	oral	NOAEL: ≥1500 mg/kg bw/d. -Toxicity for development: NOAEL: ≥1500 mg/kg bw/d			
l	STOT- single/repeated expos	sure			_				
	Component	CAS No.	Method	Species	Via	Result			
	Ammonium nitrate	6484-52-2	OECD 422 OECD 453	rat rat rat	oral (28 days) oral (52 weeks) oral (13 weeks) Inhalation (2 s)	Sub-acute oral route. NOAEL: ≥ 1500 mg/kg body weight/day. Chronic oral route. NOAEL: 256 mg/kg body weight/day. Sub-chronic oral route. NOAEL: 886 mg/kg body weight/day. Inhalation route. NOAEC (systemic): ≥ 185 mg/m3			
i	Aspiration hazard	1	Significant effects or	critical dangers are	not known.	ı			
l	*	ration may cause ir				s such as sore throat and cough.			
		,			2 1	·			

Version 1 dated 28.02.17 Page 4 of 6

	Ammoniu	m Nitrate	fertilizer > `	70% AN an	d < 80%	AN. with	mineraL	calcium s	ulphate			
SECTION 12	Ecological information											
12.1	Toxicity	Vater toxicity										
	Water toxicity		1	Fish		T		Algae				
	Component	CAS No.		(Cyprinus carpio)		Crustaceans) = 490 mg/l (or	(benthic diatoms	3)			
	Ammonium nitrate	6484-52-2	Short term	LC50(48h) = 447 m	ıg/l.	potassium nitrate magna)) (Daphnia	LC50/EC50 (10 d	lays) > 1700 mg/l (of potassium nitrate)			
	7 minionan made	0.0.022	Long term	Not necessary.		NOEC (168h) = 5 digitalis)	555 mg/l (Bullia	Not available				
		•						•				
	Land Toxicity	•							T			
	Component	CAS No.	Macroorganisms		Microorganisms		Land plants		Other organisms			
	Ammonium nitrate	6484-52-2	Not scientifically just	ified	Not scientifically	justified	Not scientificall	y justified	Not available			
	Microbiological activity in wa	ste water treatmen	t plants									
	Component	CAS No.	Toxicity for aquatic	microorganisms								
	Ammonium nitrate	6484-52-2	CE50/CL50 (180 mir	-	fium nitrate)							
	Ammonium mitrate	0404-32-2	0200/0200 (100 11111	1) > 1000 mg/1 (01 300	adii iiidac)]						
12.2	Persistence and degradabilit	y										
	Component	CAS No.	Degradation									
			Hydrolysis	Non-hydrolysable.	Test not necessar	y.						
	Ammonium nitrate	6484-52-2	Photolysis	No information ava								
			Biodegradation	Not necessary, inor	gariic substance.		I					
12.3	Bioaccumulative potential		_									
	Component	CAS No.	Octanol-water pa			tration factor CF)		С	Comments			
	Ammonium nitrate	6484-52-2	Not applicable. Inc	organic substance.		-						
		•			•							
12.4	Mobility in soil											
	Component	CAS No.	Result									
	Ammonium nitrate	6484-52-2	low absorption poten	itial (based on its pro	operties)							
12.5	Results of PBT and vPvB ass	essment										
	Not required. Inorganic substar		pendix XIII.									
12.6	Other adverse effects											
	No more information.											
	Disposal considerations											
13.1	Waste treatment methods											
	Depending on the degree and Do not put the waste in the dra Empty containers by shaking the	in, dispose of the p	roduct waste and cont	ainers in a safe way	. Dispose of in acc	cordance with all le	ocal and national	l regulations.	ste installation. on-hazardous material or returned for			
	recycling.											
SECTION 14	Transport Information			ı	ı	ı						
14.1			Proper shipping	Transport hazard	L	l	Fi		Consist annuality of			
- 14.6	Regulatory Information	UN Number	name	class(es)	Packing group	Label	Environmenta	nazards	Special precautions for users			
	ADR/RID		1	l	1	l	I		ı			
	ADNR IMDG	+			ı	NOT CLASSIFIED						
	IATA											
14.7	Transport in bulk according	to Annex II of Marp	ool and the IBC Code	: Not applicable								
SECTION 15	Regulatory information											
15.1	Safety, health and environme	ental regulations/ le	egislation specific for	the substance or r	mixture							
	Regulation 1907/2006 (REACH Regulation 1272/2008 (CLP) Directiva 2012/18/UE (SEVESI R.D. 506/2013 (fertilizers) R.D. 363/95 and RD. 255/03: (R.D. 374/2001 (Chemical ager RD. 888/2006, by which is app	Regulation 2003/2003 (fertilisers) Regulation 1907/2006 (REACH). Entry 58 of appendix XVII. Regulation 1272/2008 (CLP) Directiva 2012/18/UE (SEVESO)										
	R.D. 840/2015 SEVESO											
15.2	Chemical safety assessment		-						<u> </u>			
	Chemical Safety Assessment f	Chemical Safety Assessment for the main ingrediente, Ammonium Nitrate as a substance.										

Version 1 dated 28.02.17 Page 5 of 6

	Ammonium Nitrate fertilizer > 70% AN and < 80% AN, with mineral calcium sulphate						
SECTION 16	Other information						
	Hazard statements	None					
	Precautionary statements	None					
	Bibliographical references and data sources	Ammonium nitrate chemical safety assessment; Guidance documents EFMA/FERTILIZER EUROPE; Data for TFI HPV; NOTOX Not classified as "eye irritant" based on negative results obtained in tests conducted by EFMA / FERTILIZER EUROPE.					
	Abbreviations and acronyms	ELV-DE: Environmental limit value (daily exposure) ELV-ST Environmental limit value (short term) NOAEL: No observable adverse effect level LD50: Lethal dose 50% LC50: Lethal concentration 50% EC50: Effective concentration 50% DNEL: Derived no effect level PNEC: Predicted no effect concentration LOEC: Lowest observed effect concentration NOEC: No observed effect concentration NOAEC: No observed adverse effect concentration					
	Adequate training for workers	Obligatory training in occupational risk prevention					
	Date of prior SDS						
	Modifications introduced in the current revision						

The information contained in this Safety Data Sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information about the product at the time of publication. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risks as required by other health and safety legislation.

Version 1 dated 28.02.17 Page 6 of 6