

# Safety Data Sheet

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



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## Ammonium nitrate-urea solution

SECTION 1		Identification of the substance/mixture and of the company/undertaking
1.1	Product identifier	
	Trade name	Nutrifluid Impulse Power, Ammonium Nitrate-Urea Solution, UAN
	Synonym	Ammonium nitrate-Urea Solution
	Code	DS-001
	Chemical name	Mixture, NH <sub>4</sub> NO <sub>3</sub> + CH <sub>4</sub> N <sub>2</sub> O
	Chemical formula	Mixture, main ingredient NH <sub>4</sub> NO <sub>3</sub>
	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 Manufacture of mixtures
	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	ADP – Fertilizantes, S.A., Lavradio - (00351) 210 300 700 (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)	GHS07 Eye Irrit. 2 H319 Causes serious eye irritation. Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

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<b>2.2</b>	<b>Label elements</b>	
	<b>Hazard pictograms</b>	
	<b>Signal word</b>	Warning
	<b>Hazard-determining components of labelling</b>	Not applicable.
	<b>Hazard statements</b>	H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
	<b>Precautionary statements</b>	P102 Keep out of reach of children. P270 Do not eat, drink or smoke when using this product. P264 Wash thoroughly after handling. P273 Avoid release to the environment. 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. P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
	<b>Additional information</b>	Acquisition, possession or use by private individuals is subject to restrictions.
	<b>Supplemental information on the label</b>	Not applicable.
	<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	Not applicable.
	<b>Special packaging requirements</b>	Not applicable.
	<b>Containers to be fitted with child-resistant fastenings</b>	Not applicable.
	<b>Tactile hazard warning</b>	Not applicable.
<b>2.3</b>	<b>Other hazards</b>	
	<b>Other hazards which do not result in classification</b>	None known.
	<b>Results of the PBT and vPvB assessment</b>	Not applicable. Not applicable.

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SECTION 3 Composition/information on ingredients						
<b>3.1</b>	<b>Substances</b>					
	Not applicable.					
<b>3.2</b>	<b>Mixtures</b>					
	<b>Name</b>	<b>CE number</b>	<b>CAS number</b>	<b>Registration number</b>	<b>%(P/P)</b>	<b>Classification Regulation CE N° 1272/2008</b>
	Ammonium nitrate	229-347-8	6484-52-2	-	45,71%	Ox. Sol. 3 H272; Eye Irrit. 2 H319
	Urea	200-315-5	57-13-6	-	30-40%	Not classified
	Zinc sulphate (mono, hydrate)	231-793-3	7446-19-7	-	<1%	Acute Tox. 4 H302; Eye Dam. H318; Aquatic Acute 1 H400; Aquatic Chronic 1 H410
	<b>Additional indications</b>	For the wording of the listed hazard phrases refer to section 16.				
SECTION 4 First aid measures						
<b>4.1</b>	<b>Description of first aid measures</b>					
	<b>General information</b>	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.				
	<b>Inhalation</b>	Remove from exposure. In severe cases, or if recovery is not rapid or complete, seek medical attention.				
	<b>Ingestion</b>	Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been ingested and the exposed person is conscious, give small amounts of water to drink. Stop if the exposed person feels unwell, as vomiting may be dangerous. Do not induce vomiting unless instructed to do so by medical personnel. If vomiting occurs, keep the head down so that vomit does not enter the lungs. Get medical attention if symptoms occur. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Keep airway open. Loosen tight clothing, such as collar, tie, belt or waistband.				
	<b>Skin contact</b>	Rinse with plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists, seek medical attention.				
	<b>Eye contact</b>	Flush eyes with water for at least 15 minutes. Avoid the affected rub or close the eyes. In the case of the injured person uses contact lenses, they should be removed when they are not stuck in the eyes, otherwise further damage may occur. In all cases, after washing, seek medical advise as quickly as possible with the SDS of the product.				
<b>4.2</b>	<b>Most important symptoms and effects, both acute and delayed</b>					
	<b>Eye contact</b>	Causes eye irritation. This irritation may cause redness and swelling of the eyes.				
	<b>Inhalation</b>	No known significant effects or critical hazards.				
	<b>Skin contact</b>	Skin irritation and skin sensitisation.				

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	<b>Ingestion</b>	For ammonium salts in general: symptoms of local irritation, nausea, vomiting, diarrhoea. Systemic effect: after ingestion of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic states, respiratory paralysis, haemolysis. Gastrointestinal disturbances, blood disorders, methaemoglobinaemia with headache, cardiac arrhythmia, drop in blood pressure, dyspnoea and spasms, key symptom: cyanosis (blue colour of blood).
<b>4.3</b>	<b>Indication of any immediate medical attention and special treatment needed</b>	
	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:	
	<b>Notes to physician</b>	Treat symptomatically.
	<b>Specific treatments</b>	There is no specific treatment. It depends on specialized medical observation.
<b>SECTION 5</b>	<b>Firefighting measures</b>	
<b>5.1</b>	<b>Extinguishing media</b>	
	The product is not flammable.	
	<b>Suitable extinguishing agents</b>	Fire-extinguishing powder Dry sand
	<b>Unsuitable extinguishing agents for safety reasons</b>	None.
<b>5.2</b>	<b>Special hazards arising from the substance or mixture</b>	
	Formation of toxic gases is possible during heating or in case of fire.	
	<b>Hazardous thermal decomposition products</b>	Nitrogen oxides, nitrous gases, ammonia.
<b>5.3</b>	<b>Advice for firefighters</b>	
	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.	
<b>SECTION 6</b>	<b>Accidental release measures</b>	
<b>6.1</b>	<b>Personal precautions, protective equipment and emergency procedures</b>	
	Wear protective clothing.	
	<b>For non-emergency personnel</b>	
	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. 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).	
	<b>For emergency responders</b>	

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	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.	
<b>6.2</b>	<b>Environmental precautions</b>	
	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).	
<b>6.3</b>	<b>Methods and material for containment and cleaning up</b>	
	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.	
<b>6.4</b>	<b>Reference to other sections</b>	
	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.	
<b>SECTION 7</b>	<b>Handling and storage</b>	
<b>7.1</b>	<b>Precautions for safe handling</b>	
	<b>Technical precautionary measures</b>	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.
	<b>Advice on general occupational hygiene</b>	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.
<b>7.2</b>	<b>Conditions for safe storage, including any incompatibilities</b>	
	<p>Technical measures and storage conditions:            Ensure compliance with good housekeeping practices in storage areas. Store away from heat, sparks, flames, other sources of ignition and incompatible materials (see section 10). Keep tanks or containers at ambient temperature, but always above crystallization temperature (0°C), in ventilated areas. Protect tanks against corrosion and physical damage. Tanks that have contained other products should be previously washed with water. Protect tanks against corrosion and physical damage.</p> <p>Materials not recommended: None known            Compatible materials: Stainless steel, reinforced polyester or carbon steel internally protected with some anti-corrosion resin.</p> <p>Packaging: Store packaging in a cool, dry place. Keep out of reach of children.</p>	
<b>7.3</b>	<b>Specific end use(s)</b>	
	Use only as described in section 1.2.	
<b>SECTION 8</b>	<b>Exposure controls/personal protection</b>	
<b>8.1</b>	<b>Control parameters</b>	
	<b>Occupational exposure limits</b>	There is no limit of occupational exposure value.

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<b>Recommended monitoring procedures</b>		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.			
<b>Derived effect levels</b>		No DELs available.			
<b>Predicted effect concentrations</b>		No PECs available.			
<b>Ingredients with limit values that require monitoring at the workplace</b>		Not applicable.			
<b>DNEL</b>					
<b>Substance</b>				6484-52-2	
				Ammonium nitrate	
<b>Industrial/Professional worker</b>	<b>Inhalation (mg/m<sup>3</sup>)</b>	<b>Long-term</b>	<b>Systemic</b>	36 mg/m <sup>3</sup>	
			<b>Local</b>	No hazard has been identified	
		<b>Short-term</b>	<b>Systemic</b>	Hazards are unknown but no further information is needed as no exposure to the substance is expected to occur	
			<b>Local</b>	Hazards are unknown but no further information is needed as no exposure to the substance is expected to occur	
	<b>Dermal (mg/kg pc/día)</b>	<b>Long-term</b>	<b>Systemic</b>	5,12 mg/kg bw/d	
			<b>Local</b>	No hazard has been identified	
		<b>Short-term</b>	<b>Systemic</b>	No hazard has been identified	
			<b>Local</b>	No hazard has been identified	
	<b>Ocular (mg/kg pc/día)</b>	<b>Long-term</b>	<b>Systemic</b>	Low risk (no threshold was derived)	
			<b>Local</b>	Low risk (no threshold was derived)	
		<b>Short-term</b>	<b>Systemic</b>	Low risk (no threshold was derived)	
			<b>Local</b>	Low risk (no threshold was derived)	
	<b>Inhalation</b>	<b>Long-term</b>	<b>Systemic</b>	8,9 mg/m <sup>3</sup>	
			<b>Local</b>	No hazard has been identified	

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<b>Consumer</b>	<b>(mg/m<sup>3</sup>)</b>	<b>Short-term</b>	<b>Systemic</b>	No hazard has been identified	
			<b>Local</b>	No hazard has been identified	
	<b>Dermal (mg/kg pc/day)</b>	<b>Long-term</b>	<b>Systemic</b>	2,56 mg/kg bw/d	
			<b>Local</b>	No hazard has been identified	
		<b>Short-term</b>	<b>Systemic</b>	No hazard has been identified	
			<b>Local</b>	No hazard has been identified	
	<b>Oral (mg/kg pc/day)</b>	<b>Long-term</b>	<b>Systemic</b>	2,56 mg/kg bw/d	
			<b>Local</b>	No hazard has been identified	
		<b>Short-term</b>	<b>Systemic</b>	No hazard has been identified	
			<b>Local</b>	No hazard has been identified	
	<b>Ocular (mg/kg pc/day)</b>	<b>Long-term</b>	<b>Systemic</b>	Not available	
			<b>Local</b>	Not available	
		<b>Short-term</b>	<b>Systemic</b>	Low risk (no threshold was derived)	
			<b>Local</b>	Low risk (no threshold was derived)	
	<b>PNEC</b>				
	<b>Substance</b>			6484-52-2	
			Ammonium nitrate		
<b>Fresh water (mg/L)</b>			No hazard has been identified		
<b>Salt water (mg/L)</b>			No hazard has been identified		
<b>STP (mg/L)</b>			18 mg/L		
<b>Fresh water sediment (mg/L)</b>			No hazard has been identified		
<b>Salt water sediment (mg/L)</b>			No hazard has been identified		
<b>Air (mg/L)</b>			No hazard has been identified		
<b>Soil (mg/L)</b>			No hazard has been identified		
<b>Predators (secondary poisoning) (mg/L)</b>			The substance has no bioaccumulation potential		
<b>Components with biological limit values</b>		Non-existent.			
<b>Additional indications</b>		The Occupational exposure limits lists valid during the making were used as basis.			
<b>8.2</b>	<b>Exposure controls</b>				
	<b>Appropriate engineering controls</b>	<ul style="list-style-type: none"> <li>- Ensure adequate ventilation.</li> <li>- Apply technical measures to comply with professional exposure limits.</li> <li>- Consult the protective measures listed in sections 7 and 8.</li> </ul>			

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	<b>Personal protective measures, such as personal protective equipment</b>	<b>General protection and hygiene measures</b>	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. 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.
		<b>Respiratory protection</b>	Required when dusts are generated. Recommended Filter type: Filter P2 for solid and liquid particles of harmful substances.
		<b>Hand protection</b>	Wear suitable gloves (e.g. rubber or PVC) when handling the product for long periods of time.
		<b>Glove material</b>	Rubber gloves PVC gloves
		<b>Other</b>	Use personal protective equipment during use and handling of the product.
		<b>Eye/face protection</b>	Safety eyewear complying with an approved standard EN 166:2002 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, use the following protection, unless the assessment indicates a higher degree of protection: safety glasses with side shields. Recommended: Eyewear, mask or other protection that covers the entire face must be used if there is a possibility of being exposed to aerosols or splashes, or if hot material is handled.
		<b>Thermal hazards</b>	Not applicable due to physico-chemical characteristics.
	<b>Environmental exposure controls</b>	General ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.	
<b>SECTION 9</b>	<b>Physical and chemical properties</b>		
<b>9.1</b>	<b>Information on basic physical and chemical properties</b>		
	<b>Appearance</b>	Liquid	
	<b>Colour</b>	Green	
	<b>Odour</b>	Odourless	
	<b>Odour threshold</b>	Not available.	
	<b>pH</b>	7-8	
	<b>Melting point/freezing</b>	Not available.	
	<b>Initial boiling point and boiling range</b>	Not available.	
	<b>Flash point</b>	Not applicable due to physico-chemical characteristics.	
	<b>Evaporation rate</b>	Not available	
	<b>Flammability</b>	Non-flammable	
	<b>Upper/lower flammability or explosive limits</b>		
	<b>Lower</b>	Not available.	
	<b>Upper</b>	Not available.	
	<b>Vapour pressure</b>	Not applicable due to physico-chemical characteristics.	
	<b>Vapour density</b>	Not available.	
	<b>Relative density</b>	at 20 ° C	1.32
	<b>Solubility</b>		



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	<b>In water</b>	Fully miscible.				
	<b>Partition coefficient: n-octanol/water</b>	Not applicable due to physico-chemical characteristics.				
	<b>Auto-ignition temperature</b>	Not available.				
	<b>Decomposition temperature</b>	Not determined.				
	<b>Viscosity</b>					
	<b>Kinematic</b>	Not available				
	<b>Dynamic</b>	Not available				
	<b>Explosive properties</b>	The product is not explosive				
	<b>Oxidising properties</b>	Not available				
<b>9.2</b>	<b>Other information</b>	No additional information No further relevant information available.				
<b>SECTION 10 Stability and reactivity</b>						
<b>10.1</b>	<b>Reactivity</b>	Stable under recommended storage conditions.				
<b>10.2</b>	<b>Chemical stability</b>	Chemically stable under the indicated storage, handling and use conditions.				
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	When heated above 170°C it decomposes giving off Nox, Ammonia and SO2. Contamination with incompatible materials.				
<b>10.4</b>	<b>Conditions to avoid</b>	Strong heating (decomposition).				
<b>10.5</b>	<b>Incompatible materials</b>	Metals, Mild steel. Reducing agents, powdered metals, strong acids, strong oxidizing agents.				
<b>10.6</b>	<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx), ammonia and SO2.				
<b>SECTION 11 Toxicological information</b>						
<b>11.1</b>	<b>Information on toxicological effects</b>					
	<b>Acute toxicity</b>					
	<b>Component</b>	<b>CAS number</b>	<b>Method</b>	<b>Species</b>	<b>Route</b>	<b>Result</b>
	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)
	Based on available data, the classification criteria are not met.					
	<b>Skin corrosion/irritation</b>					
	<b>Component</b>	<b>CAS number</b>	<b>Method</b>	<b>Species</b>	<b>Route</b>	<b>Result</b>
	Ammonium nitrate	6484-52-2	OECD 404	Rabbit	Cutaneous	Non irritant
	Based on available data, the classification criteria are not met.					
	<b>Serious eye damage/irritation</b>					
	<b>Component</b>	<b>CAS number</b>	<b>Method</b>	<b>Species</b>	<b>Route</b>	<b>Result</b>
	Ammonium nitrate	6484-52-2	OECD 405	Rabbit	Ocular	Slightly irritant
	Causes serious eye irritation.					
	<b>Respiratory or skin sensitisation</b>					

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Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2	-	-	-	There are no available studies
Based on available data, the classification criteria are not met.					
<b>Germ cell mutagenicity</b>					
Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2	OECD 473 OECD 476	Bacteria Cromosomal aberration Mutation of mammal cells		Non mutagenic
Based on available data, the classification criteria are not met.					
<b>Carcinogenicity</b>					
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.
Based on available data, the classification criteria are not met.					
<b>Reproductive toxicity</b>					
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.
Based on available data, the classification criteria are not met.					
<b>STOT- single exposure</b>					
Component	CAS number	Method	Species	Route	Result
Ammonium nitrate	6484-52-2	Not available	Not available	Not available	Not available
Based on available data, the classification criteria are not met.					
<b>STOT-repeated exposure</b>					
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.
Based on available data, the classification criteria are not met.					
<b>Aspiration hazard</b>					
Component	CAS number	Result			
Ammonium nitrate	6484-52-2	No significant effects or critical hazards are known..			
Based on available data, the classification criteria are not met.					
<b>SECTION 12</b>	<b>Ecological information</b>				
<b>12.1</b>	<b>Toxicity</b>				
<b>Aquatic toxicity</b>					
Component	N° CAS		Fish	Crustacea	Algae

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	Ammonium nitrate	6484-52-2	Short term	CL50 (48h): 447 mg/L (Cyrpinus)	Not necessary	CE50 (48h): 490 mg/L
			Long term	CE50 (7d): 555 mg/L	CE50: 1700 mg/l	NOEC/CE10: 1700 mg/L
<b>Terrestrial toxicity</b>						
	<b>Component</b>	<b>N° CAS</b>	<b>Macro-organism</b>	<b>Micro-organism</b>	<b>Terrestrial plants</b>	<b>Other organisms</b>
	Ammonium nitrate	6484-52-2	Not available	Not available	Not available	-
<b>Microbiological activity in wastewater treatment plants</b>						
	<b>Component</b>	<b>N° CAS</b>	<b>Toxicity to aquatic micro-organisms</b>			
	Ammonium nitrate	6484-52-2	CE50: 1000 mg/l CE10/NOEC: 180 mg/l			
<b>12.2</b>	<b>Persistence and degradability</b>					
	<b>Component</b>	<b>N° CAS</b>	<b>Degradation</b>			
	Ammonium nitrate	6484-52-2	<b>Hydrolysis</b>	Hydrolysis is not seen. It is not necessary.		
			<b>Photolysis</b>	Not necessary		
			<b>Biodegradation</b>	Not necessary		
<b>12.3</b>	<b>Bioaccumulative potential</b>					
	<b>Component</b>	<b>N° CAS</b>	<b>Octanol-water partition coefficient (Kow)</b>	<b>Bioaccumulation factor (BFC)</b>	<b>Observations</b>	
	Ammonium nitrate	6484-52-2	Not applicable. Inorganic substance.	-	-	
<b>12.4</b>	<b>Mobility in soil</b>					
	<b>Component</b>	<b>N° CAS</b>	<b>Result</b>			
	Ammonium nitrate	6484-52-2	Being an inorganic substance it has a low adsorption potential.			
<b>12.5</b>	<b>Results of PBT and vPvB assessment</b>					
	Not applicable.					
<b>12.6</b>	<b>Other adverse effects</b>					
	Significative effects or critical risks are not known.					
<b>SECTION 13</b>	<b>Disposal considerations</b>					
<b>13.1</b>	<b>Waste treatment methods</b>					
	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>				

## Ammonium nitrate-urea solution

	Hazardous waste code	HP4: Irritant - skin irritation and eye damage HP14: Ecotoxic			
<b>SECTION 14 Transport information</b>					
	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	Not applicable		Not applicable	
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	Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.			
<b>SECTION 15 Regulatory information</b>					
15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>				
	<b>GB Regulation (EC) No 1907/2006 (REACH)</b>	This product complies with the UK REACH Regulation.			
	<b>Named dangerous substances - ANNEX VI (CLP)</b>	None substance listed.			
	<b>SEVESO Category</b>	Not applicable.			
	<b>Qualifying quantity (tonnes) for the application of lower-tier</b>	Not applicable.			
	<b>Qualifying quantity (tonnes) for the application of upper-tier</b>	Not applicable.			
	<b>Regulation (EC) No 1907/2006 - ANNEX XVII</b>	Not applicable.			
15.2	<b>Chemical safety assessment</b>				
	This substance is not registered yet.				
<b>SECTION 16 Other information</b>					
	<b>Relevant phrases</b>	H272 May intensify fire; oxidiser. H319 Causes serious eye irritation. H302 Harmful if swallowed. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.			

## Ammonium nitrate-urea solution

<b>Abbreviations and acronyms</b>	<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>NOAEL: No observed adverse effect level..</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> <p>Ox. Sol. 3: Oxidizing solids – Category 3 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</p>
<b>Data compared to the previous version altered</b>	It is the first version.
<b>References</b>	<p>This safety data sheet has been prepared in accordance with:</p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- Guidance available on the European Chemicals Agency (ECHA) website: (<a href="http://echa.europa.eu/">http://echa.europa.eu/</a>).</li> <li>- Guidance for the compilation of safety data sheets for fertilizer materials (<a href="http://www.fertilizerseurope.com">www.fertilizerseurope.com</a>).</li> </ul>
<b>Methods used for the classification of the mixture (Article 9 of Regulation (EC) No 1272/2008)</b>	Classification and Labeling in accordance with the principle of extrapolation of Regulation No. 1272/2008 (CLP).
<b>Advice on any training appropriate for workers to ensure protection of human health and the environment</b>	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.