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## Section 1 - IDENTIFICATION OF THE SUBSTANCE AND COMPANY

### 1.1 Product identifier

Trade name	FERTIFOS, FOSFONITRO, FOSKAMONIO, NITROTECK, SULFAZOTO COAT, NERGETIC, SOLUTECK <b>EC Fertilizer</b>
Other names	NPK, NP, NK FERTILIZER with Urea
Chemical name	Compound or Complex Fertilizers
INDEX number as listed in Annex VI of CLP	Not applicable
CAS number	Not applicable
EC number	Not applicable
REACH registration no(s)	Not applicable
Molecular formula	Not applicable

### 1.2 Relevant identified uses of the mixture and uses advised against

#### Uses by professional workers:

– Professional use of substance as fertilizer.

#### Uses advised against:

Others not specified.

### 1.3 Details of the supplier of the safety data sheet

Manufacturer: ADP – Fertilizantes, S.A.

Address: Estrada Nacional nº 10  
2615-907 ALVERCA  
PORTUGAL

☎ (00351) 210 300 400

FAX: (00351) 210 300 500

e-mail: [msds@adp-fertilizantes.pt](mailto:msds@adp-fertilizantes.pt)

### 1.4 Emergency telephone numbers

SOPAC – Sociedade Produtora de Adubos Compostos S.A.

Emergency National Number (Portugal)

INEM (National Emergency Centre)

☎ (00351) 265 030 496

☎ 112

☎ 808 250 143

## Section 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the substance/mixture

#### 2.1.1 Classification in accordance with Regulation (EC) 1272/2008 (CLP)

- Not applicable

### 2.2 Label elements in accordance with Regulation (EC) 1272/2008 (CLP)

Not applicable

### 2.3 Other hazards

#### 2.3.1. PBT/vPvB criteria

According to Annex XIII of Regulation (EC) N° 1907/2006, no PBT and vPvB assessment has been conducted, since the substance is inorganic.

#### 2.3.2 Physical and chemical hazards

Fertilizers are not combustible but can support combustion, even in absence of air. When heated they melt and at higher temperatures may decompose, releasing toxic gases: nitrogen oxides, ammonia and, depending on composition, hydrogen chloride, sulphur or phosphorous oxides.

#### 2.3.3. Health hazards

The fertilizers are basically harmless products when handled correctly. However, the following points should be noted:

Skin contact: Prolonged contact may cause some discomfort.


Eye contac: Prolonged contact may cause some discomfort.

Ingestion: Small quantities are unlikely to cause toxic effect. Large quantities may give rise to gastro-intestinal disorders.

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**Inhalation:** High dust concentrations of airborne material may cause irritation of the nose and upper respiratory tract with symptoms such as sore throat and coughing.

**Long term effect:** No adverse effects are known.

#### **2.3.4.Environmental precautions:**

As this fertilizer contains nitrogen and phosphates, and small quantities of micronutrients, such as zinc or copper could be added, heavy spillage may cause adverse environmental impact such as eutrophication in confined surface waters (see section 12).

### **Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

According to the REACH Regulation the product is a mixture.

Chemical name	REACH N.º	CAS N°	EINECS N°	% (w/w)	Classification Regulation (CE) nº 1272/2008
Urea	01-2119463277-33	57-13-6	200-315-5	5 – 50	Not classified
Ammonium Sulphate	01-2119455044-46	7783-20-2	231-984-1	0 – 75	Not classified
Monoammonium phosphate	01-2119488166-29	7722-76-1	231-764-5	30-90	Not classified
Diammonium phosphate	01-2119490974-22	7783-28-0	231-987-8		Not classified
Potassium chloride	Not applicable	7447-40-7	231-211-8		Not classified
Potassium sulphate	01-2119489441-34	7778-80-5	231-915-5		Not classified
Additives, coatings	Not applicable			0-5	Not classified

Other substances can be added in quantities that do not affect the classification of the product:  
Zinc sulphate (CAS n.º: 7446-19-7) and copper sulphate (CAS n.º: 7758-98-7) in quantities below 0.25%.  
Pentahydrate Borax (CAS n.º: 1330-43-4) in quantities below 6.5%

And other additives and coatings that do not affect the classification of the product.

See section 16 for the complete text regarding H-codes of the Hazard statements and the mentioned R-phrases.

### **Section 4 - FIRST-AID MEASURES**

#### **4.1 Description of first aid measures**


**General precautionary statements:** Seek medical assistance if required.

**Eye contact:** Immediately wash eyes with plenty of running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do. Seek medical assistance immediately.

**Skin contact:** Wash affected skin area with plenty of water and soap for at least 15 minutes thoroughly while removing contaminated clothing and shoes.

**Ingestion:** Seek medical advice if the victim feels unwell. Wash out mouth with plenty of water and give plenty of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting.

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**Inhalation:** Remove the victim from exposure into fresh air immediately if adverse effects (eg. dizziness, drowsiness or respiratory irritation) occur. If not breathing, give artificial respiration (do not perform mouth to mouth) or if breathing is difficult, give oxygen (if a qualified professional is present) and seek medical advice.

#### **4.2 Most important symptoms and effects, both acute and delayed**

**Acute effects:** None known.

**Delayed effects:** Effects on pulmonary function could be delayed.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

When under strong heating, decomposes releasing ammonia gas and nitrous oxides which may cause irritation and corrosive effects on respiratory tract.

### **Section 5 - FIRE-FIGHTING MEASURES**

#### **5.1 Extinguishing media**

Not combustible. Use extinguishing media suitable for the materials involved in the fire.

**Suitable:** Use plenty of water.

**Not suitable:** Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.

#### **5.2 Special hazards arising from the substance**

**Specific hazards:** Avoid contamination with incompatible substances (see section 10) and watercourses.

**Hazardous thermal decomposition and combustion products:** Nitrous oxides and ammonia and, depending in the mixture, hydrogen chloride, sulfur oxides and phosphorus.

#### **5.3 Advice for firefighters**

**Special firefighting procedures:** Open doors and windows of the store to give maximum ventilation. Avoid breathing the fumes (toxic). Stand up-wind of the fire. Prevent any contamination of fertilizer by oils or other combustible materials.

**Special protective equipment for fire-fighters:** In the event of fire, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode and a chemical protective suit.

### **Section 6 - ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Avoid creating dusty conditions and prevent wind dispersal.

#### **6.2 Environmental precautions**

Prevent the material from entering surface water or sanitary sewer system. Do not discharge directly to a water source. If accidental spillage or washings enter drains or watercourses contact local authorities.

#### **6.3 Methods and material for containment and cleaning up**

Sweep up into suitable labelled containers for recovery or disposal. Avoid creating dusty conditions and prevent wind dispersal.

#### **6.4 Reference to other sections**

See section 8 for personal protective equipment and section 13 for waste disposal.

### **Section 7 - HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling**


Avoid creating dusty conditions and prevent wind dispersal. Avoid contamination combustible materials (eg. diesel and fats) and other incompatible materials. Prevent moisture pick-up. Wear gloves when handling the product for long periods of time. Clean carefully all the equipment before maintenance and repair.

#### **7.2 Conditions for safe storage, including any incompatibilities**

On farm, ensure that the fertilizer is not stored near hay, straw, diesel, etc. Ensure that the good practices of housekeeping in the storage areas are respected. Do not allow smoking, making fire or flames nor the use of naked lamps in the storage area. Restrict the height of the pile or stack (according to local or national regulation) and maintain a minimum distance of 1 meter between stacks or piles of bagged product. Any building used for storage should be dry and well ventilated. Do not store in direct sunlight in order to prevent physical destruction of the product due to thermal cycles.

**Packaging:** Use synthetic plastic packaging, steel or aluminum. Avoid the use of copper and zinc.

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### 7.3 Specific end uses

See section 1.2.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Regulated occupational exposure limit values: Not established.

Recommended total inhalable dust value: **TLV-TWA: 10 mg/m<sup>3</sup>**

Derived No Effect Level (DNEL)								
Exposure route with systemic effects <sup>1</sup>	Workers			General Population				
	Oral <sup>2</sup> (mg/kg bw/day)	Dermal <sup>2</sup> (mg/kg bw/day)	Inhalation <sup>2</sup> (mg/m <sup>3</sup> )	Oral <sup>2</sup> ( mg/kg bw/day )	Dermal <sup>2</sup> (mg/kg bw/day)	Inhalation <sup>2</sup> (mg/m <sup>3</sup> )		
Urea	Not applicable	580	292	42	580	125		
Ammonium Sulphate	Not applicable	42.667	11.167	6.4	12.8	1.667		
Monoammonium phosphate	Not applicable	34.7	6.1	2.1	20.8	1.8		
Diammonium phosphate	Not applicable	34.7	6.1	2.1	20.8	1.8		
Ammonium Sulphate	Not applicable	21.3	37.6	12.8	12.8	11.1		
Potassium chloride	Not available			Not available				
Predicted No Effect Concentration (PNEC)								
Limit values for environment exposure <sup>1</sup>	Fresh water (mg/l)	Marine water (mg/l)	Intermittent release (mg/l)	Air (mg/m <sup>3</sup> )	Soil (mg/kg)	Microorganisms (mg/l)	Sedimenta r (mg/kg)	Oral
Urea	0.45	Not available	Not available	Not available	Not available	Not applicable	Not available	Not applica ble
Ammonium Sulphate	0.312	0.0312	0.53	Not available	62.6	16.18	6.063	
Monoammoni um phosphate	1.7	0.17	17	Not available	Not available	10	Not available	
Diammonium phosphat	1.7	0.17	17	Not available	Not available	10	Not available	
Potassium sulphate	0.68	0.068	0.68	Not available	Not available	10	Not available	
Potassium chloride	Not available							

1: According to the performed chemical safety assessment.

2: As an acute toxicity hazard leading to Classification and Labelling of the substance has not been identified, the long-term DNEL is considered sufficient to ensure that effects from acute exposure to the substance do not occur (in accordance with ECHA Guidance on information requirements and chemical safety assessment: Chapter R.8: Characterisation of dose [concentration]-response for human health, May 2008 and Part B: Hazard Assessment, Draft new chapter B.8 Scope of Exposure Assessment, March 2010).

### 8.2 Exposure controls


Appropriate engineering controls: Avoid exposure to dust and provide local exhaust ventilation, when required.

Hygiene measures: Do not eat, drink or smoke when handling the product. Wash hands, forearms and face after handling the product, using the lavatory and at the end of the working period. Always follow the good practices of hygiene.

Individual protection measures, such as personal protective equipment

Respiratory protection: The use of dust masks with appropriate filter (EN 143, 149, filters P2, P3) is recommended when the concentration of dust is high and/or the ventilation is inadequate.

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Hand protection: Wear chemical-resistant and impervious gloves, when handling the product for long periods of time.

Eye protection: Wear protection goggles (EN166).

Skin and body protection: Use work clothes.

Environmental exposure controls: Treat the rinse water according to local and national regulations. Provide the contention and confinement of the product (see section 6.2.).

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<i>Appearance, 20°C e 1013 hPa</i>	White, gray or colored solid granule
<i>Odour</i>	Odourless
<i>pH (10% aqueous solution)</i>	> 4.5
<i>Melting point</i>	160 – 170°C (depending on the mixture).
<i>Boiling point</i>	Not available (decomposes).
<i>Flash Point</i>	Not relevant, not flammable.
<i>Evaporation rate</i>	Not available
<i>Flammability</i>	Non flammable
<i>Explosive limits upper/lower</i>	Not applicable
<i>Vapour pressure 20°C</i>	Not applicable
<i>Vapour Density</i>	Not applicable
<i>Relative density</i>	Not applicable
<i>Solubility in water</i>	Soluble. Hygroscopic.
<i>Partition coefficient</i>	Not available
<i>n-octanol/water</i>	
<i>Auto ignition temperature</i>	Non flammable
<i>Decomposition temperature</i>	Not available
<i>Viscosity</i>	Not applicable to solids
<i>Explosive properties</i>	Not explosive
<i>Oxidizing properties</i>	Not oxidising

### 9.2 Other information

<i>Bulk density</i>	Between 800-1000kg/m <sup>3</sup>
<i>Granulometry</i>	2.00 – 5.00 mm

## Section 10 – STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under recommended storage and handling conditions (see section 7, handling and storage).

### 10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7, handling and storage).

### 10.3 Possibility of hazardous reactions

When strongly heated decomposes releasing toxic vapours releasing nitrous and sulphur oxides, ammonia and, depending in the mixture, hydrogen chloride, sulfur oxides and phosphorus. Possibility of hazardous reactions by contamination by incompatible materials.

### 10.4 Conditions to avoid

Storage in warm places or in direct sunlight. Decomposes when heated. Contamination by incompatible materials. Unnecessary exposure to the atmosphere. Closeness to sources of heat or fire. Heating under confinement. Welding or hot work on equipment or plant which may have contained fertilizer without first washing thoroughly to remove all fertilizer.


### 10.5 Incompatible materials

Combustible materials, reducing agents, acids, alkalis, sulphur, chlorates, chlorides, chromates, nitrites, permanganates, metallic powders and substances containing metals such as copper, nickel, cobalt, zinc and their alloys. Can lead to explosive mixtures by reacting with nitric acid (urea nitrate) or hypochlorite (nitrogen trichloride).

### 10.6 Hazardous decomposition products

In case of fire: see section 5. When strongly heated, it melts and decomposes releasing toxic fumes with nitrogen oxides, ammonia and, depending on composition, hydrogen chloride, sulphur or phosphorous oxides.

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## Section 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

All information on toxicological effects					
Acute toxicity	Ingredient	Specie	Via	Method	Result
Acute toxicity	Urea	Rat	Oral	OECD 401	LD <sub>50</sub> : 13.3-15 g/kg bw
	Ammonium sulphate			OECD 401	LD <sub>50</sub> : 4250 mg/kg bw
	Monoammonium phosphate			OECD 425	LD <sub>50</sub> :> 2000 mg/kg bw
	Diammonium phosphate			OECD 425	LD <sub>50</sub> :> 2000 mg/kg bw
	Potassium sulphate			OECD 425	LD <sub>50</sub> :> 2000 mg/kg bw
	Potassium chloride			-	LD <sub>50</sub> : 3020 mg/kg bw
Local effects	Acute toxicity	Result			
Sensitization	Urea	None Known.			
	Ammonium sulphate				
	Monoammonium phosphate				
	Diammonium phosphate				
	Potassium sulphate				
	Potassium chloride				
Others	Ingredient	Result			
Sub-acute toxicity	Urea	None Known.			
	Ammonium sulphate				
	Monoammonium phosphate				
	Diammonium phosphate				
	Potassium sulphate				
	Potassium chloride				
Mutagenicity	Urea	None Known. Ames test negative.			
	Ammonium sulphate				
	Monoammonium phosphate				
	Diammonium phosphate				
	Potassium sulphate				
	Potassium chloride				
Others	Ingredient	Result			
Reproductive toxicity	Urea	None Known.			
	Ammonium sulphate				
	Monoammonium phosphate				
	Diammonium phosphate				
	Potassium sulphate				
	Potassium chloride				
Carcinogenicity	Urea	None Known.			
	Ammonium sulphate				
	Monoammonium phosphate				
	Diammonium phosphate				
	Potassium sulphate				
	Potassium chloride				

## Section 12 - ECOLOGICAL INFORMATION

### 12.1 Toxicity


	Ingredient	Species	Period	Method	Result
Aquatic Toxicity	Urea	Fish	96-h	-	LC <sub>50</sub> : >6810 mg/l
		Daphnia	24-h	-	LC <sub>50</sub> : >10000 mg/l
		Algae	8-d	-	LC <sub>50</sub> : >47 mg/l
	Ammonium sulphate	Fish	96-h	-	LC <sub>50</sub> : 53 mg/l
		Daphnia	48-h	-	EC <sub>50</sub> : >169 mg/l
		Algae	5-d	-	EC <sub>50</sub> : >1605 mg/l

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	Monoammonium phosphate	Fish	96-h	OECD 201	LC <sub>50</sub> : 85.9 mg/l
		Daphnia	72-h	-	EC <sub>50</sub> : 1790 mg/l
		Algae	72-h	OECD 201	EC <sub>50</sub> : 97.1 mg/l
	Diammonium phosphate	Fish	96-h	-	LC <sub>50</sub> : 1700 mg/l
		Daphnia	72-h	-	EC <sub>50</sub> : 1790 mg/l
		Algae	5-d	OECD 201	EC <sub>50</sub> : > 100 mg/l
	Potassium sulphate	Fish	96-h	-	LC <sub>50</sub> : 680 mg/l
		Daphnia	48-h	-	EC <sub>50</sub> : 890 mg/l
		Algae	3-d	-	EC <sub>50</sub> : 1430 - 2900 mg/l
	Potassium chloride	Fish	96-h	-	LC <sub>50</sub> : 880 mg/l
		Daphnia	48-h	-	EC <sub>50</sub> : 660 mg/l
		Algae	3-d	-	EC <sub>50</sub> : 1337 mg/l


**12.2 Persistence and degradability**

	<b>Ingredient</b>	<b>Result</b>
Biodegradation	Urea	10.9 mg/l
	Ammonium sulphate	Not relevant for inorganic substances.
	Monoammonium phosphate	
	Diammonium phosphate	
	Potassium sulphate	
	Potassium chloride	
Hydrolysis	Urea	Information not available.
	Ammonium sulphate	No hydrolysable, will completely dissociate into ammonium and sulfate ions.
	Monoammonium phosphate	No hydrolysable, will completely dissociate into ammonium and phosphate ions.
	Diammonium phosphate	No hydrolysable, will completely dissociate into ammonium and phosphate ions.
	Potassium sulphate	No hydrolysable, will completely dissociate into sulphate and potassium ions.
	Potassium chloride	No hydrolysable, will completely dissociate into chloride and potassium ions.
Photolysis	Urea	Information not available.
	Ammonium sulphate	
	Monoammonium phosphate	
	Diammonium phosphate	
	Potassium sulphate	
	Potassium chloride	

**12.3 Bioaccumulative potential**

	<b>Ingrediente</b>	<b>Resultado</b>
Octanol-water partition coefficient (K <sub>ow</sub> ):	Urea	-1.73
	Ammonium sulphate	Not relevant for inorganic substances.
	Monoammonium phosphate	
	Diammonium phosphate	
	Potassium sulphate	
	Potassium chloride	
Bioconcentration factor (BCF):	Urea	Information not available.
	Ammonium sulphate	
	Monoammonium phosphate	

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	Diammonium phosphate	
	Potassium sulphate	
	Potassium chloride	

**12.4 Mobility in soil**

	Ingredient	Result
Adsorption coefficient	Urea	Low potential for adsorption (based on substance properties).
	Ammonium sulphate	
	Monoammonium phosphate	
	Diammonium phosphate	
	Potassium sulphate	
	Potassium chloride	

**12.5 Results of PBT and vPvB assessment**

According to Annex XIII of Regulation (EC) No 1907/2006, no PBT and vPvB assessment is not relevant to inorganic substances.

**12.6 Other adverse effects**

Heavy spillage may cause adverse environmental impact such as eutrophication in confined surface.

**Section 13 - DISPOSAL CONSIDERATIONS**

Waste from residues: Depending on the level and nature of the contamination, reuse as fertilizer, use as raw material for liquid fertilizers or send to an authorized collection site. The disposal should be performed according to local and national regulation and in accordance with the Directive 2008/98/CE. Avoid contamination of watercourses. Contact local authorities, in case of contamination.

Container: The empty bags can be delivered for recycling.

**Section 14 - TRANSPORT INFORMATION**

International Transport Regulation						
Regulatory information	UN Number	Name	Transport hazard class	Packaging group	Label	Special precautions
ADR/RID	Not classified	NPK fertilizer with urea	-	-	-	-
ADNR	Not classified	NPK fertilizer with urea	-	-	-	-
IMDG	Not classified	NPK fertilizer with urea	-	-	-	-
IATA	Not classified	NPK fertilizer with urea	-	-	-	-

Transport in bulk according to Annex II of Marpol and the IBC Code : Schedule name: Ammonium nitrate based fertilizer (non hazardous); Group C

**Section 15 - REGULATORY INFORMATION****15.1 Safety, health and environmental regulation/legislation specific for the substance**


- The substance complies with Regulation (EC) n° 2003/2003 of the European Parliament and of the Council of 13 October relating to fertilizers
- Regulation n° 1907/2006/CE (REACH) and Regulation n°453/2010
- Classification and Labelling according to Regulation (EC) n° 1272/2008 (CLP)

**15.2 Chemical Safety Assessment**

In accordance with REACH Article 14, a Chemical Safety Assessment has been carried out for main ingredients urea, ammonium sulphate, monoammonium phosphate, diammonium phosphate and potassium sulphate, as substances.

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## Section 16 - CHEMICAL SAFETY ASSESSMENT

### 16.1 Definitions and Acronyms

**ADR:** European Agreement concerning the International Carriage of Dangerous Goods by Road; **CAS:** Chemical Abstract Service; **CLP:** Regulation (EC) n° 1272/2008; **DSD** Directive 67/548/EEC; **EC:** European Commission; **DNEL:** Derived No-Effect Level; **EC<sub>50</sub>:** Median Effective concentration ; **EINECS:** European Inventory of Existing Commercial chemical Substances; **EU:** European Union; **IATA:** International Air Transport Association; **IMDG:** International Maritime Dangerous Goods; **LC50:** Median Lethal concentration; **LD<sub>50</sub>:** Median Lethal dose; **NOAEC:** No Observed Adverse Effect Concentration; **NOAEL:** No Observed Adverse Effect Level; **NOEC:** No Observed Effect Concentration; **OECD:** Organization for Economic Co-operation and Development.; **PNEC:** Predicted No Effect Concentration; **PBT:** Persistent Bioaccumulative and Toxic; **Mono-constituent substance:** Defined by its composition, in which one main constituent is present in at least 80% (w/w); **SDS:** Safety data sheet; **vPvB:** very Persistent and very Bioaccumulative.

### 16.2 References

- Guidance documents available on European Chemicals Agency (ECHA) website.
- [www.fertilizerseurope.com](http://www.fertilizerseurope.com) (Guidance for the compilation of safety data sheets for fertilizer materials).

### 16.3 Complete texts of the Codes used

- Classification and Labelling in accordance with Regulation (EC) n° 1272/2008 (CLP), Annex VI:
  - Not classified
- Classification and Labelling in accordance with Regulation (EC) n° 1272/2008 (CLP), by self-classification based on the performed CSA:
  - Not classified

### 16.4 Other references

- Edition Date:** - 01-02-2016  
**Date of previous edition:** - 28-03-2013  
**Changes to this edition:** -

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