

Safety Data Sheet

According to Regulation (EU) No 453/2010 of the Commission

Issue date 21/09/2012
 Issue 3
 Review date 11/07/2013
 Review 4

NPK (without ammonium nitrate)

1 Identification of the substance/mixture and of the company/undertaking																			
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* To understand the full meaning of R phrases and/or hazard statements (H): see section 16																			

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3 Composition/information on ingredients									
Name	% (w/w)	CAS No.	IUPAC	Index No R.1272/2008	REACH Registration Number	Classification D. 67/548/EEC	Classification Regulation 1272/2008	Specific concentration limits	
Urea	Any quantity	57-13-6	Urea		01-2119463277-33-0022	Not classified	Not classified		
Monocommonium phosphate	Any quantity	7722-76-1	ammonium dihydrogen phosphate		01-2119488166-29-0046	Not classified	Not classified		
Diammonium phosphate	Any quantity	7783-28-0	diammonium hydrogen phosphate		01-2119490974-22-0000	Not classified	Not classified		
Ammonium sulfate	Any quantity	7783-20-2	diammonium sulfate		01-2119455044-46-0034	Not classified	Not classified		
Potassium chloride	Any quantity	7447-40-7	potassium chloride		Not required	Not classified	Not classified		
Potassium sulfate (KHSO ₄ <1%)	Any quantity	7778-80-5	dipotassium sulfate		01-2119489441-34-xxxx	Not classified	Not classified		
inert materials (sand, limestone c	Any quantity	--	--		Not required	Not classified			
It may contain other substances in amounts that do not affect the classification of the product: Zinc oxide (CAS No.: 1314-13-2) in amounts < 0.25% Borax (CAS No.: 1330-43-4) in amounts < 4.5% Ferrous sulfate heptahydrate (CAS No.: 7782-63-0) in amounts ≤ 6% Magnesium oxide (CAS No.: 1309-48-4); Magnesium sulfate (CAS No.: 7487-88-9); Kiserita (CAS No.: 14168-73-1) And other dyes and additives that do not contribute to classification of the product.									

4 First aid measures	
4.1 Description of first aid measures	
General	
Inhalation	Remove the affected person from the source of dust. Seek medical attention if necessary.
Ingestion	Do not induce vomiting. If the person is conscious, rinse mouth with water and give fluid (water or milk) slowly to the extent that he can drink. Seek medical attention if more than a small quantity has been ingested.
Contact with skin	Wash the affected area with plenty of water and soap.
Contact with eyes	Immediately flush eyes with eyewash solution or normal clean water for at least 15 minutes and also under the eyelids. Remove contact lenses if present and easy to do. Seek medical attention if eye irritation persists.
4.2 Most important symptoms and effects, both acute and 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 effects on the respiratory system. Administer oxygen, especially if there is blue colouring (methaemoglobin) around the mouth.

5 Firefighting measures	
5.1 Extinguishing media	
Suitable extinguishing media	There are no restrictions on the type of extinguisher which may be used. Water can be used if it is compatible with the burning material.
Unsuitable extinguishing media	None
5.2 Special hazards arising from the substance or mixture	
Special hazards	The solution must not be allowed to enter into drains.
Thermal decomposition or product combustion hazards	Nitrogen and ammonium oxides
5.3 Advice for firefighters	
Specific firefighting methods	Open doors and windows in the area to give maximum ventilation. Avoid breathing the smoke (toxic). Position yourself upwind of the fire. Avoid any contamination of the product with incompatible materials.
Special protective equipment for firefighting	Use self contained breathing apparatus in case of smoke.

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6	Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures	
		Avoid walking on the spilled 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 receptacle and labelled for safe disposal.
6.4	Reference to other sections	
		See section 1 for contact data, section 8 for PPE and section 13 for waste disposal.

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 handling the product over long periods of time wear suitable personal protective equipment, e.g. gloves. Carefully clean the equipment before carrying out maintenance and repair operations.
7.2	Conditions for safe storage, including any incompatibilities	
		Store in compliance with all local and national regulations. Keep away from heat or fire sources. Keep away from combustible materials and substances mentioned in Section 10.3. In the field, ensure that the fertilizer is not stored near hay, straw, grain, gas-oil, etc. Ensure a high standard of cleanliness in the storage area. Do not allow smoking or the use of naked lamps in the storage area. Keep at least 1 m between stacks of packaged goods. Any building used for storage should be dry and well ventilated.
	Recommended and non-recommended packaging materials	Suitable materials for containers are: polyethylene, polypropylene, etc.
7.3	Specific end uses	
		See section 1.2 and appendices for exposure scenarios.

Note: stability and reactivity, see section 10

8	Exposure controls/personal protection	
8.1	Control parameters	
	Occupational exposure limit values	Not established for any of its components
8.2	Exposure controls	
	Engineering measures and hygiene controls	Provide plenty of cool running water for flushing in case of contact with skin or eyes. Provide ventilation where 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 measures	
	Eyes	Safety glasses with side shields (EN 166) or panoramic safety goggles according to risk.
	Skin and body	Work clothes.
	Hands	Use suitable gloves (for example, rubber or PVC) when handling the product over long periods of time.
	Respiratory	If there are high concentrations of dust or inadequate ventilation use suitable respiratory equipment.
	Thermal	
	Environmental exposure controls	Use appropriate agricultural practices to minimize ammonia losses due to volatilization. See section 6.
	<i>Advice relating to personal protection is valid for high exposure levels.</i>	
	<i>Choose personal protection equipment suitable to exposure risks.</i>	

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9	Physical and chemical properties	
9.1	Information on basic physical and chemical properties	
	Aspect	Granules
	Colour	White, greyish of coloured with various dyes.
	Odour	Odourless
	Molecular weight	Not applicable
	pH	pH aqueous solution at 10%: > 4.5
	Boiling point	It decomposes.
	Melting point	130-140 °C depending on the degree of moisture.
	Flash-point	Non flammable
	Flammability	Non flammable
	Explosive properties	Non-explosive.
	Auto-ignition temperature	Non flammable
	Decomposition temperature	Not available
	Lower explosive limit	Not applicable
	Upper explosive limit	Not applicable
	Oxidising properties	Non-oxidising.
	Apparent density at 20°C	Normally between 850-1000 kg/m ³ .
	Vapour pressure at 100 °C	Not applicable
	Vapour density	Not applicable
	Partition coefficient n-octanol/water	LgPow < -1.73 for urea
	Viscosity	Not applicable
	Water solubility	Variable depending on the components.
9.2	Additional information	Particle size: 2-4.5 mm

10	Stability and reactivity	
10.1	Reactivity	Stable under normal conditions of storage, handling and use (see section 7)
10.2	Chemical stability	Stable under normal conditions of storage, handling and use (see section 7)
10.3	Possibility of hazardous reactions	Undescribed.
10.4	Conditions that must be avoided	High temperature, due to the release of toxic gases (e.g. NO _x and ammonia, etc.). Contamination by incompatible materials. Exposure to moisture should be avoided to prevent physical degradation of the product.
10.5	Incompatible materials	Acids, alkali, nitrites and nitrates, sodium hypochlorite or calcium hypochlorite, strong oxidants Urea reacts with sodium hypochlorite or calcium hypochlorite to form the nitrogen trichloride which may explode spontaneously in air. Strong reaction with nitrites.
10.6	Hazardous decomposition products	In case of fire: see Section 5 When strongly heated it melts and decomposes releasing toxic gases (e.g. NO _x and ammonia). When it is in contact with alkaline materials, such as lime, ammonia gases may be produced.

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	Toxicokinetics, metabolism and distribution	Not available																																																
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	Toxicity for reproduction	No known significant effects or critical hazards																																																
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12	Ecological information							
12.1	Toxicity							
	Water toxicity							
	Component	CAS No.		Fish	Crustaceans	Algae		
	Urea	57-13-6	Short term	LC50(96h) > 6810 mg/l (Leuciscus idus)	CL50 (24h) > 10,000 mg/l (Daphnia magna)	CL50 (192h) = 47 mg/l (Microcystis aeruginosa)		
	Monoammonium phosphate	7722-76-1		CL50(96h) > 85.9 mg/l (Oncorhynchus mykiss)	CL50 (72h) 1790-1825 mg/l (Daphnia carinata)	NOEC (72h) > 97.1 mg/l (Selenastrum capricornutum)		
	Diammonium phosphate	7783-28-0		CL50(96h) 1700-1875 mg/l (Cirrhinus mrigala/L. Rohita)	CL50 (48h) 52-81 mg of N-ammonia/l (Daphnia magna)	NOEC (72h) > 97.1 mg/l (Selenastrum capricornutum)		
	Ammonium sulfate	7783-20-2		CL50(96h) > 53 mg/l (Oncorhynchus mykiss)	CE50 (96h) > 168.8 mg/l (Daphnia magna)	CE50 (18d) = 2700 mg/l (Chlorella vulgaris)		
	Potassium chloride	7447-40-7		CL50(96h) 750-1020 mg/l (Pimephales promelas)	CL50 (48h) 440-880 mg/l (Daphnia magna)	NOEC (72h) > 100 mg/l (Desmodesmus subspicatus)		
	Potassium sulfate	7778-80-5		CL50(96h) > 680 mg/l (Pimephales promelas)	CL50 (48h) > 720 mg/l (Daphnia magna)	CE50 (18d) = 2700 mg/l (Chlorella vulgaris)		
	Low toxicity to aquatic life							
12.2	Persistence and degradability							
	Component	CAS No.	Aquatic life	Photolysis	Biodegradability			
	Urea	57-13-6	Not available	Not available	10.9 mg/l in 1 hr at 20 °C			
	Monoammonium phosphate	7722-76-1	Not available	Not available	Easily			
	Diammonium phosphate	7783-28-0	Not available	Not available	Easily			
	Ammonium sulfate	7783-20-2	Not available	No evidence	Inorganic substance.			
	Potassium chloride	7447-40-7	Not available	Not available	Inorganic substance.			
	Potassium sulfate	7778-80-5	Not available	Not available	Inorganic substance.			
12.3	Bioaccumulative potential							
	Component	CAS No.	Octanol-water partition coefficient (Kow)	Bioconcentration factor (BCF)	Bioaccumulative potential			
	Urea	57-13-6	-1.73		Low			
	Monoammonium phosphate	7722-76-1	Not available		Not available			
	Diammonium phosphate	7783-28-0	Not available		Not available			
	Ammonium sulfate	7783-20-2	Not applicable		Not applicable			
	Potassium chloride	7447-40-7	Not applicable		Not applicable			
	Potassium sulfate	7778-80-5	Not applicable		Not applicable			
12.4	Mobility in soil							
	Component	CAS No.	Result					
	Urea	57-13-6	Soluble in water.					
	Monoammonium phosphate	7722-76-1	Water and citrate soluble. Rapidly transformed by soil microorganisms.					
	Diammonium phosphate	7783-28-0	Water and citrate soluble. Rapidly transformed by soil microorganisms.					
	Ammonium sulfate	7783-20-2	Soluble in water.					
	Potassium chloride	7447-40-7	Soluble in water.					
	Potassium sulfate	7778-80-5	Soluble in water.					
12.5	Results of PBT and vPvB assessment							
	Not available.							
12.6	Other adverse effects							
	Heavy spillage may cause an adverse environmental impact such as eutrophication in confined surface waters.							
13	Disposal considerations							
13.1	Waste treatment methods							
	<p>Depending on the degree and nature of the waste, choose to use it as a fertiliser over the ground, as a raw material for the manufacture of liquid fertiliser, or made available to an authorised waste facility. Do not empty into drains.</p> <p>Dispose of this material and its container safely and in accordance with all applicable local and national regulations.</p> <p>Empty containers by shaking them to remove as much of their content as possible. If authorized by local authorities, empty bags can be disposed of as non-hazardous material or returned for recycling. See chapters 06 03 and 06 10 of the list of wastes (Commission decision 2000/532/EC)</p>							
14	Transport Information							
14.1 - 14.6	Regulatory Information	UN Number	Proper shipping name	Class	Packing group	Label	Environmental hazards	Special precautions for users
	ADR/RID							
	ADNR							
	IMDG							
	IATA							
	NOT CLASSIFIED							
14.7	Bulk transport in accordance with appendix II of the Marpol 73/78 Convention and the IBC Code: Not applicable							

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15	Regulatory information	
15.1	Safety, health and environmental regulations and legislation specific for the substance or mixture	
	Regulation 2003/2003 (fertilisers) Regulation 1907/2006 (REACH) Regulation 1272/2008 (CLP) Directive 548/1967; R.D. 363/1995 (Hazardous substances) R.D. 374/2001 (Chemical agents) R.D. 506/2013 (fertilizers)	
15.2	Chemical Safety Assessment	
	Chemical Safety Assessment carried out for the main ingredients.	
16	Other information	
	Risk Phrases	None
	Hazard statements	None
	Precautionary statements	None
	Bibliographical references and data sources	Chemical Safety Assessment for the main ingredients; Guidance documents EFMA/FERTILIZER EUROPE; Data for TFI HPV; NOTOX
	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	Version 3 dated 21.09.12
	Modifications made to present revision	15.1: R.D. 824/2005 > R.D. 506/2013
<p>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.</p>		