

# Safety Data Sheet

According to Commission Regulation (EU) No 2015/830

Issue date 11/07/2013  
 Issue 2  
 Review date 21/07/2016  
 Review 3

## Diammonium Phosphate (DAP)

SECTION 1 Identification of the substance/mixture and of the company/undertaking																	
1.1	<b>Product identifier</b>  <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding: 2px;"><b>Product commercial name</b></td> <td style="padding: 2px;">N-P complex fertilizer, Diammonium Phosphate (DAP)</td> </tr> <tr> <td style="padding: 2px;"><b>Chemical name</b></td> <td style="padding: 2px;">Diammonium hydrogen orthophosphate</td> </tr> <tr> <td style="padding: 2px;"><b>Other names</b></td> <td style="padding: 2px;">Phosphoric Acid, Diammonium salt. Dibasic Ammonium Phosphate.</td> </tr> <tr> <td style="padding: 2px;"><b>Chemical formula</b></td> <td style="padding: 2px;">(NH<sub>4</sub>)<sub>2</sub>HPO<sub>4</sub></td> </tr> <tr> <td style="padding: 2px;"><b>EU index number (Appendix 1)</b></td> <td style="padding: 2px;">Not applicable</td> </tr> <tr> <td style="padding: 2px;"><b>CE No</b></td> <td style="padding: 2px;">231-987-8</td> </tr> <tr> <td style="padding: 2px;"><b>CAS No.</b></td> <td style="padding: 2px;">7783-28-0</td> </tr> <tr> <td style="padding: 2px;"><b>REACH or National product registration number</b></td> <td style="padding: 2px;">01-2119490974-22-0000</td> </tr> </table>	<b>Product commercial name</b>	N-P complex fertilizer, Diammonium Phosphate (DAP)	<b>Chemical name</b>	Diammonium hydrogen orthophosphate	<b>Other names</b>	Phosphoric Acid, Diammonium salt. Dibasic Ammonium Phosphate.	<b>Chemical formula</b>	(NH <sub>4</sub> ) <sub>2</sub> HPO <sub>4</sub>	<b>EU index number (Appendix 1)</b>	Not applicable	<b>CE No</b>	231-987-8	<b>CAS No.</b>	7783-28-0	<b>REACH or National product registration number</b>	01-2119490974-22-0000
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SECTION 2 Hazards identification																	
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* To understand the full meaning of hazard statements (H): see section 16																	

## Diammonium Phosphate (DAP)

SECTION 3 Composition/information on ingredients							
3.1	Name	CE No.	CAS No.	% (w/w)	IUPAC name	Classification Regulation 1272/2008	Specific concentration limits
	Diammonium Phosphate (DAP)	231-987-8	7783-28-0	≥70%	Diammonium Hydrogen Phosphate	-	
	Monoammonium Phosphate (MAP)	231-764-5	7722-76-1	<10%	Ammonium Dihydrogen Phosphate	-	
	Ammonium Sulphate	231-984-1	7783-20-2	<10%	Diammonium Sulphate	-	
	Other inorganic phosphates			<10%	Impurity unknown	-	
	Other inorganic impurities			<10%	Impurity unknown	-	
SECTION 4 First aid measures							
4.1	Description of first aid measures						
	<b>General</b>	In some cases medical attention is necessary.					
	<b>Inhalation</b>	Withdraw from the focus of dust emission. Seek medical attention if large amounts of the dust have been breathed.					
	<b>Ingestion</b>	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.					
	<b>Contact with skin</b>	Wash the affected area with water.					
	<b>Contact with eyes</b>	Wash or rinse the eyes with plenty of water for at least 10 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 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 ammonia may cause irritation and have corrosive effects on the respiratory system.					
SECTION 5 Firefighting measures							
5.1	Extinguishing media						
	<b>Suitable extinguishing media</b>	Use plenty of water, chemical agents or foams.					
	<b>Unsuitable extinguishing media</b>	None					
5.2	Special hazards arising from the substance or mixture						
	<b>Special hazards</b>	Heating to decomposition releases toxic fumes.					
	<b>Thermal decomposition or product combustion hazards</b>	Ammonia and possibly phosphorus oxides.					
5.3	Advice for firefighters						
	<b>Specific firefighting methods</b>	Open doors and windows in the area to give maximum ventilation. Avoid breathing the smoke (toxic). Position yourself upwind of the fire.					
	<b>Special protective equipment for firefighting</b>	Use self contained breathing apparatus in case of smoke.					
SECTION 6 Accidental release measures							
6.1	Personal 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.					
6.4	Reference to other sections						
		See section 1 for contact data, section 8 for PPE and section 13 for waste disposal.					

## Diammonium Phosphate (DAP)

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 carrying out maintenance and repair operations.					
7.2	Conditions for safe storage, including any incompatibilities						
		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.					
	Recommended packaging materials	Suitable materials for containers are: synthetic materials such as plastic, steel and aluminum. Avoid the use of copper.					
7.3	Specific end uses						
		See section 1.2.					
<i>Note: stability and reactivity, see section 10</i>							
SECTION 8		Exposure controls/personal protection					
8.1	Control parameters						
	Occupational exposure limit values	Component	CAS				
		DAP	7783-28-0				
			Not established.				
	Derived from the CSR	DNEL	Worker			consumer	
			oral	systemic	industrial	professional	Not available 2.1 mg/kg bw/day
		inhalation	Short term long term	Not applicable 6.1 mg / m3	Not applicable 6.1 mg / m3	Not available 1.8 mg / m3	
		dermal	Short term long term	Not available 34.7 mg/kg bw/day	Not available 34.7 mg/kg bw/day	Not available 20.8 mg/kg bw/day	
		PNEC	water	air	soil	microbiological	sediment
		Fresh water: 1.7 mg/L Sea water: 0.17 mg/L Intermittent emissions: 17 mg/L	Not available	Not available	10 mg/L	Not available	Not available
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 measures						
	Eyes	Use appropriate safety glasses according to the task.					
	Skin and body	Work clothes.					
	Hands	Use suitable gloves (for example, rubber or leather) when handling the product over long periods of time.					
	Respiratory	If there is a high concentration of dust and/or the ventilation is inadequate, use an anti-dust mask or respirator with a suitable filter.					
	Thermal						
	Environmental exposure controls	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>						

## Diammonium Phosphate (DAP)

SECTION 9 Physical and chemical properties																			
<b>9.1 Information on basic physical and chemical properties</b>																			
<b>Aspect</b>	White, gray or black granules or crystals																		
<b>Odour</b>	Odorless or slight ammonia odor																		
<b>Odour threshold</b>	Not applicable																		
<b>pH</b>	pH aqueous solution (100 g/l) approx. 8.																		
<b>Melting point/freezing point</b>	155 °C (Decomposition)																		
<b>Initial boiling point and boiling range</b>	Decomposes at > 155 °C																		
<b>Flash-point</b>	Not applicable																		
<b>Evaporation rate</b>	Not applicable																		
<b>Flammability</b>	Not applicable																		
<b>Upper/lower flammability limits</b>	Not applicable																		
<b>Vapour pressure at 20 °C</b>	Not applicable																		
<b>Vapour density</b>	Not applicable																		
<b>Apparent density at 20°C</b>	1000 kg/m <sup>3</sup> (depending on particle size)																		
<b>Water solubility</b>	588 g/l at 20 °C for pure DAP																		
<b>Partition coefficient n-octanol/water</b>	Not available																		
<b>Auto-ignition temperature</b>	Not applicable																		
<b>Decomposition temperature</b>	> 155 °C																		
<b>Viscosity</b>	Not applicable																		
<b>Explosive properties</b>	Not explosive																		
<b>Oxidising properties</b>	Not oxidising																		
<b>9.2 Other information</b>																			
<b>Molecular weight</b>	132 (DAP)																		
<b>SECTION 10 Stability and reactivity</b>																			
<b>10,1 Reactivity</b>	Stable under normal conditions of storage, handling and use (see section 7)																		
<b>10,2 Chemical stability</b>	Stable under normal conditions of storage, handling and use (see section 7)																		
<b>10,3 Possibility of hazardous reactions</b>	When heated above 155 °C it decomposes releasing Ammonia. Contamination with incompatible materials.																		
<b>10,4 Conditions to avoid</b>	Proximity to sources of heat or fire. Contamination by incompatible materials. Heating above 155 °C (it decomposes to gases) Heating when confined. Welding or heating work of the equipment or plant that may contain fertiliser remnants, without preliminary cleaning to remove the product remnants.																		
<b>10,5 Incompatible materials</b>	Alkalis, strong acids, copper and its alloys.																		
<b>10,6 Hazardous decomposition products</b>	In case of fire: see Section 5 Ammonia is released when heated or when it reacts with strong bases. See sections 2 and 9.																		
<b>SECTION 11 Toxicological information</b>																			
<b>11,1 Information on toxicological effects</b>																			
<b>Toxicokinetics, metabolism and distribution</b>	Overall, approximately two thirds of ingested phosphate is absorbed from the gastro-intestinal tract in adults. The phosphate absorbed is practically eliminated in urine excretion.																		
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		OECD 402		Dermal	LD50: > 5000 mg/kg bw														
<b>Skin corrosion/irritation</b>	No known significant effects or critical hazards.																		
<b>Serious eye damage/irritation</b>	No known significant effects or critical hazards.																		
<b>Respiratory or skin sensitisation</b>	No known significant effects or critical hazards.																		
<b>Germ cell mutagenicity</b>	No known significant effects or critical hazards.																		
<b>Carcinogenicity</b>	No known significant effects or critical hazards.																		
<b>Reproductive toxicity</b>	No known significant effects or critical hazards.																		
<b>STOT-single exposure y STOT-repeated exposure</b>	No known significant effects or critical hazards.																		
<b>Aspiration hazard</b>	No known significant effects or critical hazards.																		

## Diammonium Phosphate (DAP)

SECTION 12		Ecological information						
12,1	<b>Toxicity</b>							
	<b>Water toxicity</b>							
	<b>Component</b>	<b>CAS No.</b>		<b>Fish (Cirrhinus mrigala/L. Rohita)</b>	<b>Crustaceans (Daphnia magna)</b>	<b>Algae (Selenastrum capricornutum)</b>		
	DAP	7783-28-0	Short term	LC50 (96 h) 1700-1875 mg/l.	LC50 (48 h) 52-81 mg of ammon-N/l	NOEC (72 h) > 97.1 mg/l		
12,2	<b>Persistence and degradability</b>							
	<b>Component</b>	<b>CAS No.</b>	<b>Aquatic Life</b>	<b>Photolysis</b>	<b>Biodegradability</b>			
	DAP	7783-28-0	Not available	Not available	Easily			
12,3	<b>Bioaccumulative potential</b>							
	<b>Component</b>	<b>CAS No.</b>	<b>Octanol-water partition coefficient (Kow)</b>	<b>Bioconcentration factor (BCF)</b>	<b>Bioaccumulative potential</b>			
	DAP	7783-28-0	Not available	-	Not available			
12,4	<b>Mobility in soil</b>							
	<b>Component</b>	<b>CAS No.</b>	<b>Result</b>					
	DAP	7783-28-0	Water and citrate soluble. Transformed rapidly by soil microorganisms.					
12,5	<b>Results of PBT and vPvB assessment</b>							
	Not available.							
12,6	<b>Other adverse effects</b>							
	Soil bacteria convert ammonia to nitrate, which can be absorbed by plants or through denitrification to nitrogen and nitrous oxide by micro-organisms. In water the ammonium ions and phosphate can cause eutrophication resulting in increased growth of algae. The decomposition of algae can reduce dissolved oxygen, which if significant, can cause asphyxiation of other aquatic organisms.							
SECTION 13		Disposal considerations						
13,1	<b>Waste treatment methods</b>							
	Depending on the level of contamination, eliminate as fertiliser or at an authorised waste facility. Disposal should be in accordance with local, state or national legislation. Empty bags should be returned for recycling or disposed of as non-hazardous material. (See section 7)							
SECTION 14		Transport Information						
14.1 - 14.6	<b>Regulatory Information</b>	<b>UN Number</b>	<b>Proper shipping name</b>	<b>Class</b>	<b>Packing group</b>	<b>Label</b>	<b>Environmental hazards</b>	<b>Special precautions for users</b>
	ADR/RID ADNR IMDG IATA						NOT CLASSIFIED	
14.7	<i>Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable</i>							
SECTION 15		Regulatory information						
15,1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>							
	Regulation 2003/2003 (fertilisers) Regulation 1907/2006 (REACH) Regulation 1272/2008 (CLP) R.D. 374/2001 (Chemical agents) R.D. 506/2013 (fertilizers)							
15,2	<b>Chemical Safety Assessment</b>							
	Chemical Safety Assessment carried out for DAP as a substance.							
SECTION 16		Other information						
	<b>Hazard statements</b>							
	<b>Precautionary statements</b>							
	<b>Bibliographical references and data sources</b>							
	DAP chemical safety assessment. Guidance documents EFMA/FERTILIZER EUROPE; Data for TFI HPV; NOTOX.							
	<b>Abbreviations and acronyms</b>							
	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% 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							
	<b>Adequate training for workers</b>							
	Obligatory training in occupational risk prevention							
	<b>Date of prior SDS</b>							
	Version 2 dated 11.07.13							
	<b>Modifications made to present revision</b>							
	Adaptation to the Commission Regulation (EU) No 2015/830. Update of current regulations							
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.								