

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name

**DAP**

Identification numbers

CAS no. 7783-28-0

EC no. 231-987-8

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

**Relevant identified uses of the substance or mixture**

Formulation

Seed treatment

Synthesis

Transfer from one container to another, loading/unloading of liquid and solid fertilizer by industrial.

Manufacture of food products

Waste water treatment: microorganisms nutrient in biofilters.

Industrial use

Oil purification

Manufacture of flame retardants, Ammoniumpolyphosphates; Fire extinguishers.

Dental Investment Casting Material.

Fermentation – Nutrient.

Cigarettes - manufacture of cigarette paper from tobacco waste.

Manufacture of dyes and auxiliary chemicals chemicals for textiles.

Used in dyes, auxiliary chemicals for textiles.

Agriculture: surface spreading or incorporation at open field and/or forest fertilization, professional end-use (fertilization of amenity: parks, public lawn, sport field, golf courses). Surface spreading at home gardens.

Fertigation at open field: liquid fertilizer.

Transfer from one container to another, loading/unloading of liquid and solid fertilizer by professional.

Co-formulant in PPPs.

As fire agent for extinguisher.

blending of fertilizers and other compounds, dilution of fertilizers, including filling into containers or transfer from one container to another.

**Uses advised against**

None known

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

**Address**

Ameropa AG

Rebgasse 108

CH-4102 Binningen

Telephone no. +41 61 301 2711

Fax no. +41 61 302 9863

**Advice on Safety Data Sheet**

info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification information**

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

This product does not meet the classification and labelling criteria given in the Dangerous Preparations Directive 67/548/EC (DSD)

## 2.2 Label elements

Not relevant

## 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Chemical characterization

Substance name diammonium hydrogenorthophosphate, with an iron content exceeding 0.03% by weight on the dry anhydrous product

#### Identification numbers

CAS no. 7783-28-0

EC no. 231-987-8

### 3.2 Mixtures

Not applicable. The product is not a mixture.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

#### After skin contact

Wash off immediately with soap and water.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

#### After ingestion

Rinse out mouth and give plenty of water to drink. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

#### Unsuitable extinguishing media

No data available.

### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Nitrogen oxides (NO<sub>x</sub>); Phosphorus oxides; Ammonia (NH<sub>3</sub>)

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid dust formation.

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## For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

## 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

## 6.3 Methods and material for containment and cleaning up

Take up mechanically. Send in suitable containers for recovery or disposal.

## 6.4 Reference to other sections

No data available.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Avoid the formation and deposition of dust.

#### General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale dust. Remove soiled or soaked clothing immediately.

#### Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

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

#### Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

#### Requirements for storage rooms and vessels

Store product in closed containers.

#### Advice on storage assembly

None known

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL und PNEC values

##### DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	diammonium hydrogenorthophosphate, with an iron content exceeding 0.03% by weight on the dry anhydrous product			7783-28-0 231-987-8	
	dermal	Long term (chronic)	systemic	34,7	mg/kg/day
	inhalational	Long term (chronic)	systemic	6,1	mg/m <sup>3</sup>

##### DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	diammonium hydrogenorthophosphate, with an iron content exceeding 0.03% by weight on the dry anhydrous product			7783-28-0 231-987-8	
	oral	Long term (chronic)	systemic	2,1	mg/kg/day
	dermal	Long term (chronic)	systemic	20,8	mg/kg/day
	inhalational	Long term (chronic)	systemic	1,8	mg/m <sup>3</sup>

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## PNEC values

No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	diammonium hydrogenorthophosphate, with an iron content exceeding 0.03% by weight on the dry anhydrous product		7783-28-0 231-987-8
	water	fresh water	1,7 mg/l
	water	marine water	0,17 mg/l
	sewage treatment plant	-	10 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

No data available.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Protective gloves (EN 374); Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

#### Other

Normal chemical work clothing.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form/Colour
solid
white

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<b>Odour</b>	
No data available	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point / melting range</b>	
No data available	
<b>Decomposition point / decomposition range</b>	
No data available	
<b>Flash point</b>	
No data available	
<b>Auto-ignition temperature</b>	
No data available	
<b>Oxidising properties</b>	
No data available	
<b>Explosive properties</b>	
No data available	
<b>Flammability (solid, gas)</b>	
No data available	
<b>Lower flammability or explosive limits</b>	
No data available	
<b>Upper flammability or explosive limits</b>	
No data available	
<b>Vapour pressure</b>	
Value	0,0762 Pa
Reference temperature	20 °C
Source	CSR
<b>Vapour density</b>	
No data available	
<b>Evaporation rate</b>	
No data available	
<b>Relative density</b>	
No data available	
<b>Density</b>	
Value	1,62
Reference temperature	20 °C
Source	CSR
<b>Solubility in water</b>	
Value	> 100 g/l
Reference temperature	20 °C
Source	CSR

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**Solubility(ies)**

No data available

**Partition coefficient: n-octanol/water**

No data available

**Viscosity**

No data available

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

No data available.

**10.2 Chemical stability**

No data available.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Heat

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

Ammonia; Phosphorus oxides; Nitrogen

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects****Acute oral toxicity**

LD50	>	2000	mg/kg
Species	rat		
Method	OECD 425		
Source	CSR		

**Acute dermal toxicity**

LD50	>	5000	mg/kg
Species	rat		
Method	OECD 402		
Source	CSR		

**Acute inhalational toxicity**

LC50	>	5	mg/l
Duration of exposure		4	h
Species	rat		
Method	OECD 403		
Source	CSR		

**Skin corrosion/irritation**

Species	rabbit		
Reference substance	CAS 7722-76-1		
Method	OECD 404		
Source	CSR		
Evaluation	non-irritant		

**Serious eye damage/irritation**

Species	rabbit		
Reference substance	CAS 7722-76-1		
Method	OECD 405		
Source	CSR		
Evaluation	non-irritant		

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<b>Respiratory or skin sensitisation</b>	
Route of exposure	Skin
Species	mouse
Method	OECD 429
Source	CSR
Evaluation	non-sensitizing
<b>Germ cell mutagenicity</b>	
Type of examination	In vitro bacterial reverse mutation assay
Method	OECD 471
Source	CSR
Evaluation	negative
<b>Reproduction toxicity</b>	
Route of exposure	900
Type of examination	>= 1500 mg/kg/d NOAEL
Method	OECD 422
Source	CSR
<b>Carcinogenicity</b>	
No data available	
<b>STOT-single exposure</b>	
No data available	
<b>STOT-repeated exposure</b>	
No data available	
<b>Aspiration hazard</b>	
No data available	

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Fish toxicity</b>	
LC50	1700 mg/l
Duration of exposure	96 h
Source	CSR
<b>Daphnia toxicity</b>	
EC50	1790 mg/l
Duration of exposure	72 h
Species	Daphnia carinata
Reference substance	CAS 8030-27-1
Source	CSR
<b>Algae toxicity</b>	
EC50	> 100 mg/l
Species	Pseudokirchneriella subcapitata
Method	OECD 201
Source	CSR

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## Bacteria toxicity

No data available

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

### 12.7 Other information

#### Other information

Do not discharge into the drains or waters and do not store on public depositories.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

### 14.4 Other information

No data available.

### 14.6 Special precautions for user

No data available.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

#### Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks

Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.



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## 15.2 Chemical safety assessment

No data available.

## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

### Department issuing safety data sheet

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