

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

**Product identifier:** Diammonium Phosphate  
Ammonium Phosphate, Dibasic  
Diammonium Hydrogenorthophosphate DAP  
Diammonium Hydrogenorthophosphate

**CAS:** 7783-28-0

**Other means of identification:** Non-applicable.

**Relevant identified uses of the substance or mixture and uses advised against:**

**Relevant uses:** Chemical industry. For professional users/industrial user only.

**Uses advised against:** All uses not specified in this section or in section 7.3

**Company name:** Nexchem Ltd  
Unit 3 Barshaw Park  
Leycroft Road  
Leicester  
LE4 1ET  
Tel: 0116 2311130  
24/7 Emergency Tel: 0800 246 1274  
Email: [sales@nexchem.co.uk](mailto:sales@nexchem.co.uk)

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture:**

**GB CLP Regulation:** The product is not classified as hazardous according to GB CLP Regulation.

**Label elements:**

**GB CLP Regulation:**

**Hazard statements:** Non-applicable.

**Precautionary statements:** P281: Use personal protective equipment as required.  
P502: Refer to manufacturer/supplier for information on recovery/recycling.

**Other hazards:** Product fails to meet PBT/vPvB criteria.

# SAFETY DATA SHEET

Diammonium Phosphate

Issued: 23/02/2026

Page 2

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance:**

**Chemical description:** Chemical substance

**Components:**

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 7783-28-0	Diammonium Hydrogenorthophosphate	95 - <100 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**Mixture:** Non-applicable.

## 4. FIRST AID MEASURES

**Description of first aid measures:** Consult a doctor in case of discomfort showing the SDS for the product.

**By inhalation:** In case of symptoms, move the person affected into fresh air.

**By skin contact:** In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters...), seek medical advice with this Safety data Sheet.

**By ingestion/aspiration:** In case of consumption in large quantities, it is recommended to seek medical assistance.

**Most important symptoms and effects, both acute and delayed:** Acute and delayed effects are indicated in sections 2 and 11.

**Indication of any immediate medical attention and special treatment needed:** Non-applicable.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:**

**Suitable extinguishing media:** Product is non-flammable, with a low risk of fire due to the flammability characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water...)

**Unsuitable extinguishing media:** Non-applicable.

**Special hazards arising from the substance or mixture:** Due to its inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

**Advice for firefighters:** Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit...).

**Additional provisions:** Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

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## SAFETY DATA SHEET

Diammonium Phosphate

Issued: 23/02/2026

Page 3

### 6. ACCIDENTAL RELEASE MEASURES

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

**For non-emergency personnel:** Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal.

**For emergency responders:** Wear protective equipment. Keep unprotected persons away. See section 8.

**Environmental precautions:** This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

#### Methods and material for containment and cleaning up:

**It is recommended:** Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal.

**Reference to other sections:** See sections 8 and 13.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling:

**A.- Precautions for safe manipulation:** Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

**B.- Technical recommendations for the prevention of fires and explosions:** Due to its inflammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

**C.- Technical recommendations to prevent ergonomic and toxicological risks:** Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks:** It is not necessary to take special measures to prevent environmental risks. For more information see subsection 6.2.

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

##### A.- Technical measures for storage:

**Minimum Temp.:** 2°C

**Maximum Temp.:** 35°C

**Maximum time:** 24 Months

**B.- General conditions for storage:** Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**Specific end use(s):** Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

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# SAFETY DATA SHEET

Diammonium Phosphate

Issued: 23/02/2026

Page 4

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters:**

**Substances whose occupational exposure limits have to be monitored in the workplace:**

**Nuisance dust:** Inhalable dust 10 mg/m<sup>3</sup> // Respirable dust 4 mg/m<sup>3</sup>

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
diammonium	<b>Oral</b>	Non-applicable	Non-applicable	Non-applicable	Non-applicable
hydrogenorthophosphate	<b>Dermal</b>	Non-applicable	Non-applicable	8.3 mg/kg	Non-applicable
CAS: 7783-28-0 EC: 231-987-8	<b>Inhalation</b>	Non-applicable	Non-applicable	5.9 mg/m <sup>3</sup>	Non-applicable

**DNEL (General population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
diammonium	<b>Oral</b>	Non-applicable	Non-applicable	0.42 mg/kg	Non-applicable
hydrogenorthophosphate	<b>Dermal</b>	Non-applicable	Non-applicable	4.17 mg/kg	Non-applicable
CAS: 7783-28-0 EC: 231-987-8	<b>Inhalation</b>	Non-applicable	Non-applicable	1.45 mg/m <sup>3</sup>	Non-applicable

**PNEC:**

Identification				
diammonium hydrogenorthophosphate CAS: 7783-28-0 EC: 231-987-8	<b>STP</b>	10 mg/L	<b>Fresh water</b>	Non-applicable
	<b>Soil</b>	Non-applicable	<b>Marine water</b>	Non-applicable
	<b>Intermittent</b>	Non-applicable	<b>Sediment (Fresh water)</b>	Non-applicable
	<b>Oral</b>	Non-applicable	<b>Sediment (Marine water)</b>	Non-applicable

**Exposure controls:**

**Individual protection measures, such as personal protective equipment:**

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**Respiratory protection:**

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

**Specific protection for the hands:** Non-applicable.

**Eye and face protection:** Non-applicable.

**Body protection:** Non-applicable.

**Additional emergency measures:** It is not necessary to take additional emergency measures.

**Environmental exposure controls:** In accordance with the community legislation for the protection of the environment, it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

<b>Physical state at 20°C:</b>	Solid
<b>Appearance:</b>	Crystals
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Non-applicable *

**Volatility:**

**Boiling point at atmospheric pressure:** Non-applicable \*

**Vapour pressure at 20°C:** Non-applicable \*

**Vapour pressure at 50°C:** Non-applicable \*

**Evaporation rate at 20°C:** Non-applicable \*

**Product description:**

<b>Density at 20°C:</b>	1620 kg/m <sup>3</sup>
<b>Relative density at 20°C:</b>	1.62
<b>Dynamic viscosity at 20°C:</b>	Non-applicable *
<b>Kinematic viscosity at 20°C:</b>	Non-applicable *
<b>Kinematic viscosity at 40°C:</b>	Non-applicable *
<b>Concentration:</b>	Non-applicable *
<b>pH:</b>	Non-applicable *
<b>Vapour density at 20°C:</b>	Non-applicable *
<b>Partition coefficient n-octanol/water 20°C:</b>	Non-applicable *
<b>Solubility in water at 20°C:</b>	>100 kg/m <sup>3</sup>
<b>Solubility properties:</b>	Highly water-soluble
<b>Decomposition temperature:</b>	Non-applicable *
<b>Melting point/freezing point:</b>	155°C

**Flammability:**

<b>Flash Point:</b>	Non-applicable
<b>Flammability (solid, gas):</b>	Non-applicable *
<b>Autoignition temperature:</b>	Non-applicable *
<b>Lower flammability limit:</b>	Non-applicable *
<b>Upper flammability limit:</b>	Non-applicable *

**Explosive:**

<b>Lower explosive limit:</b>	Non-applicable *
<b>Upper explosive limit:</b>	Non-applicable *

**Particle characteristics:**

<b>Median equivalent diameter:</b>	Non-applicable *
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# SAFETY DATA SHEET

Diammonium Phosphate

Issued: 23/02/2026

Page 6

## Other information:

### Information with regard to physical hazard classes:

**Explosive properties:** Non-applicable \*

**Oxidising properties:** Non-applicable \*

**Corrosive to metals:** Non-applicable \*

**Heat of combustion:** Non-applicable \*

**Aerosols-total percentage (by mass) of flammable components:** Non-applicable \*

### Other safety characteristics:

**Surface tension at 20 °C:** Non-applicable \*

**Refraction index:** Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

## 10. STABILITY AND REACTIVITY

**Reactivity:** No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**Chemical stability:** Chemically stable under the conditions of storage, handling and use.

**Possibility of hazardous reactions:** Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### Conditions to avoid:

#### Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

**Hazardous decomposition products:** See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products.

Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects:** LD50 oral > 2000 mg/kg (rat)

**Dangerous health implications:** In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure.

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# SAFETY DATA SHEET

Diammonium Phosphate

Issued: 23/02/2026

Page 7

## A- Ingestion (acute effect):

**Acute toxicity:** Based on available data, the classification criteria are not met.

**Corrosivity/Irritability:** Based on available data, the classification criteria are not met.

## B- Inhalation (acute effect):

**Acute toxicity:** Based on available data, the classification criteria are not met.

**Corrosivity/Irritability:** Based on available data, the classification criteria are not met.

## C- Contact with the skin and the eyes (acute effect):

**Contact with the skin:** Based on available data, the classification criteria are not met.

**Contact with the eyes:** Based on available data, the classification criteria are not met.

## D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

**Carcinogenicity:** Based on available data, the classification criteria are not met.

**IARC:** Non-applicable.

**Mutagenicity:** Based on available data, the classification criteria are not met.

**Reproductive toxicity:** Based on available data, the classification criteria are not met.

## E- Sensitizing effects:

**Respiratory:** Based on available data, the classification criteria are not met.

**Cutaneous:** Based on available data, the classification criteria are not met.

**F- Specific target organ toxicity (STOT) - single exposure:** Based on available data, the classification criteria are not met.

## G- Specific target organ toxicity (STOT)-repeated exposure:

**Specific target organ toxicity (STOT)-repeated exposure:** Based on available data, the classification criteria are not met.

**Skin:** Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**H- Aspiration hazard:** Based on available data, the classification criteria are not met

**Other information:** Non-applicable

## Product-specific toxicological information:

Acute toxicity		Genus
LD50	6500 mg/kg	Rat

## Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
diammonium	LD50 oral	6500 mg/kg	Rat
hydrogenorthophosphate	LD50 dermal	>5000 mg/kg	
CAS: 7783-28-0	LC50 inhalation	>5 mg/L	

[cont...]

# SAFETY DATA SHEET

Diammonium Phosphate

Issued: 23/02/2026

Page 8

## 12. ECOLOGICAL INFORMATION

**Toxicity:** Not available.

**Persistence and degradability:** Not available.

**Bioaccumulative potential:** Not available.

**Mobility in soil:** Not available.

**Results of PBT and vPvB assessment:** Product fails to meet PBT/vPvB criteria

**Other adverse effects:** Not described.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

Code	Description	Waste class
	It is not possible to assign a specific code, as it depends on the intended use by the user	Non-dangerous

**Type of waste:** Non-applicable

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

**In accordance with Annex II of UK REACH the provisions related to waste management are stated:**

**UK legislation:** The Waste Regulations 2011.

## 14. TRANSPORT INFORMATION

**Transport of dangerous goods by land:** With regard to ADR 2021 and RID 2021.

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**Substances listed in UK candidate list of substances of very high concern (SVHCs):** Non-applicable.

**Substances listed in UK REACH Authorisation List (Annex 14):** Non-applicable.

**The Control of Major Accident Hazards Regulations 2015:** Non-applicable.

**Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH etc):**  
Non-applicable.

[cont...]

# SAFETY DATA SHEET

Diammonium Phosphate

Issued: 23/02/2026

Page 9

## Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

## Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.

Control of Substances Hazardous to Health Regulations 2002 (as amended).

EH40/2005 Workplace exposure limits.

## Note:

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

## 16. OTHER INFORMATION

### Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

### Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.