



BÜCHI Labortechnik AG

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BUCHI Certificate of Analysis (CoA)

Product Characteristics

Product:	Ammonium Phosphate Monobasic Analytical Standard for Kjeldahl Nitrogen
Order code:	045527
LOT no.:	04552724G1
Date of test:	12/07/2024
Expiration date:	28/07/2027

Testing Results

Description	Specification	Measured value
Appearance (Color)	Colorless or White	White
Appearance (Form)	Powder or Crystals or Powder with Chunk(s) or Crystals with Chunk(s)	Crystals
Titration (T) NaOH 1M	99.5 – 100.5%	99.7%
Titration	Total Kjeldahl Nitrogen 12.18 ± 0.10% (Traceable to NIST SRM 194)	12.20%
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
pH Test	3.8 – 4.4	4.2
Loss on Drying	~0.2%	0.0%

Storage: Room temperature, keep dry and tightly closed in well-ventilated rooms.

Certificate issue date: 12/07/2024

This certificate is electronically generated and does not require a signature.

This certificate must not be reproduced except in full.

Safety data sheet

according to 1907/2006/EC, Article 31

Printing 22.07.2024

version number 5 (replaces version 4)

Revision: 22.07.2024

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

***1.1 Product identifier**

***Trade name:** Ammonium Phosphate Monobasic 25g
Analytical Standard for Nitrogen determination according to Kjeldahl Method, ≥99.5%

***Article number:** 045527

***CAS Number:**

7722-76-1

***EC number:**

231-764-5

***Registration number**

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

***UFI:** 2KC2-M0WR-500P-Q5TX

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

***Product category** For experiments, research, or testing purposes only. Prohibited of use for other purposes.

***Application of the substance / the mixture** Laboratory Chemicals

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

***Manufacturer/Supplier:** See Below

***Manufacturer:**

Reagecon Diagnostics Ltd.

Shannon Free Zone,

Shannon,

Co. Clare,

Ireland.

Tel +353 61 472622

Fax +353 61 472642

***Supplier:**

BÜCHI Labortechnik AG

Meierseggstrasse 40

CH - 9230 Flawil

Telephone: +41 71 394 63 63

FAX: +41 71 394 65 65

Email: buchi@buchi.com

Internet: www.buchi.com

***Further information obtainable by contacting:** sds@reagecon.ie

***1.4 Emergency telephone number:**

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC

For Ireland call +(353)-19014670

For Outside Ireland call +1 703-741-5970 / 1-800-424-9300 CCN849800

SECTION 2: Hazards identification

***2.1 Classification of the substance or mixture**

***Classification according to Regulation (EC) No 1272/2008**

The substance is not classified, according to the CLP regulation.

***2.2 Label elements**

***Labelling according to Regulation (EC) No 1272/2008** Void

***Hazard pictograms** Void

***Signal word** Void

***Hazard statements** Void

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- *2.3 Other hazards
- *Results of PBT and vPvB assessment
- *PBT: Not applicable.
- *vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- *3.1 Substances
- *CAS No. Description
CAS: 7722-76-1 ammonium dihydrogenorthophosphate
- *Identification number(s)
- *EC number: 231-764-5

SECTION 4: First aid measures

- *4.1 Description of first aid measures
- *General information: No special measures required.
- *After inhalation:
Provide fresh air, warmth and rest. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Obtain medical attention if any discomfort continues.
- *After skin contact: Generally the product does not irritate the skin.
- *After eye contact:
Promptly wash eyes with plenty of water for up to 15 minutes. Open eyes wide apart and rinse well to remove any contact lenses. Do not remove contact lenses by hand. Continue to rinse. Get medical attention if symptoms persist.
- *After swallowing: If symptoms persist consult doctor.
- *4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- *4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

- *5.1 Extinguishing media
- *Suitable extinguishing agents:
Indications shall be given whether any extinguishing media are inappropriate for a particular situation involving the substance or mixture
Use fire extinguishing methods suitable to surrounding conditions.
- *5.2 Special hazards arising from the substance or mixture No further relevant information available.
- *5.3 Advice for firefighters
- *Protective equipment:
Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers

SECTION 6: Accidental release measures

- *6.1 Personal precautions, protective equipment and emergency procedures Not required.
- *6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- *6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- *6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

- *7.1 **Precautions for safe handling** No special measures required.
- ***Information about fire - and explosion protection:** No special measures required.
- *7.2 **Conditions for safe storage, including any incompatibilities**
- ***Storage:**
- ***Requirements to be met by storerooms and receptacles:** No special requirements.
- ***Information about storage in one common storage facility:** Not required.
- ***Further information about storage conditions:** None.
- *7.3 **Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- *8.1 **Control parameters**
- ***Ingredients with limit values that require monitoring at the workplace:** Not required.
- ***Additional information:** The lists valid during the making were used as basis.
- *8.2 **Exposure controls**
- ***Appropriate engineering controls** No further data; see section 7.
- ***Individual protection measures, such as personal protective equipment**
- ***General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- ***Respiratory protection:** Not required.
- ***Hand protection**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Always ensure that gloves are inspected before use.
Selection of protective gloves must include consideration of the penetration times along with rates of diffusion and degradation. The selected glove should comply with the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.
- ***Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- ***Penetration time of glove material**
In the absence of data above, the exact break through time has to be sourced from the manufacturer of the protective gloves and has to be observed.
- ***Eye/face protection** Not required.

SECTION 9: Physical and chemical properties

- *9.1 **Information on basic physical and chemical properties**
- ***General Information**
- ***Physical state** Liquid
- ***Colour:** Colourless
- ***Odour:** Characteristic
- ***Odour threshold:** Not determined.
- ***Melting point/freezing point:** 190 °C
- ***Boiling point or initial boiling point and boiling range** Undetermined.
- ***Flammability** Product is not flammable.

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***Lower and upper explosion limit.**

*Lower:	Not determined.
*Upper:	Not determined.
*Flash point:	Not applicable.
*Decomposition temperature:	Not determined.
*pH	7.8-8.2
*Viscosity:	
*Kinematic viscosity	Not applicable.
*Dynamic:	Not applicable.
*Solubility	
*water at 20 °C:	370 g/l
*Partition coefficient n-octanol/water (log value)	Not determined.
*Vapour pressure:	Not applicable.
*Density and/or relative density	
*Density at 20 °C:	1.1 g/cm ³
*Relative density	Not determined.
*Bulk density:	1,100 kg/m ³
*Vapour density	Not applicable.
*Particle characteristics	
See section 3.	

***9.2 Other information**

*Appearance:	
*Form:	Crystalline
*Important information on protection of health and environment, and on safety.	
*Ignition temperature:	Not determined.
*Explosive properties:	Product does not present an explosion hazard.
*Molecular weight	115.03 g/mol
*Change in condition	
*Evaporation rate	Not applicable.

***Information with regard to physical hazard classes**

*Explosives	Void
*Flammable gases	Void
*Aerosols	Void
*Oxidising gases	Void
*Gases under pressure	Void
*Flammable liquids	Void
*Flammable solids	Void
*Self-reactive substances and mixtures	Void
*Pyrophoric liquids	Void
*Pyrophoric solids	Void
*Self-heating substances and mixtures	Void
*Substances and mixtures, which emit flammable gases in contact with water	Void
*Oxidising liquids	Void
*Oxidising solids	Void
*Organic peroxides	Void
*Corrosive to metals	Void
*Desensitised explosives	Void

SECTION 10: Stability and reactivity

***10.1 Reactivity** No further relevant information available.

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- *10.2 **Chemical stability**
- ***Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- *10.3 **Possibility of hazardous reactions** No dangerous reactions known.
- *10.4 **Conditions to avoid** No further relevant information available.
- *10.5 **Incompatible materials:** No further relevant information available.
- *10.6 **Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- *11.1 **Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- ***Acute toxicity** Based on available data, the classification criteria are not met.

***LD/LC50 values relevant for classification:**

CAS: 7722-76-1 ammonium dihydrogenorthophosphate

Oral	LD50	5,570 mg/kg (rat)
Dermal	LD50	>7,940 mg/kg (rabbit)

- ***Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- ***Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- ***Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- ***Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- ***Carcinogenicity** Based on available data, the classification criteria are not met.
- ***Reproductive toxicity** Based on available data, the classification criteria are not met.
- ***STOT-single exposure** Based on available data, the classification criteria are not met.
- ***STOT-repeated exposure** Based on available data, the classification criteria are not met.
- ***Aspiration hazard** Based on available data, the classification criteria are not met.
- *11.2 **Information on other hazards**

***Endocrine disrupting properties**

Substance is not listed.

SECTION 12: Ecological information

- *12.1 **Toxicity**
- ***Aquatic toxicity:** No further relevant information available.
- *12.2 **Persistence and degradability** No further relevant information available.
- *12.3 **Bioaccumulative potential** No further relevant information available.
- *12.4 **Mobility in soil** No further relevant information available.
- *12.5 **Results of PBT and vPvB assessment**
- ***PBT:** Not applicable.
- ***vPvB:** Not applicable.
- *12.6 **Endocrine disrupting properties**
- The product does not contain substances with endocrine disrupting properties.
- *12.7 **Other adverse effects**
- ***Additional ecological information:**
- ***General notes:**
- Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
- Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- *13.1 **Waste treatment methods**
- ***Recommendation** Smaller quantities can be disposed of with household waste.

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***Uncleaned packaging:**

***Recommendation:** Disposal must be made according to official regulations.

***Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

***14.1 UN number or ID number**

***ADR, IMDG, IATA** Void

***14.2 UN proper shipping name**

***ADR** Void

Void

***IMDG, IATA**

Void

***14.3 Transport hazard class(es)**

***ADR, IMDG, IATA**

***Class**

Void

***14.4 Packing group**

***ADR, IMDG, IATA** Void

***14.5 Environmental hazards:**

Not applicable.

***14.6 Special precautions for user**

Not applicable.

***14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

***UN "Model Regulation":**

Void

SECTION 15: Regulatory information

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

***Directive 2012/18/EU**

***Named dangerous substances - ANNEX I** Substance is not listed.

***REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 65

***DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

***REGULATION (EU) 2019/1148**

***Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

***Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Substance is not listed.

***Regulation (EC) No 273/2004 on drug precursors**

Substance is not listed.

***Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

***National regulations:**

***Waterhazard class:** Water hazard class 1 (Assessment by list): slightly hazardous for water.

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***15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Department issuing SDS: Health and Safety**

***Contact: sds@reagecon.ie**

***Date of previous version: 15.12.2022**

***Version number of previous version: 4**

***Abbreviations and acronyms:**

REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

***NO**

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