



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 20.02.2023

Version number 6 (replaces version 5)

Revision: 02.02.2023

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

1.1 Product identifier

• **Trade name:** Monoammonium dihydrogenphosphate (MAP) - brown

• **CAS Number:**

7722-76-1

• **EC number:**

231-764-5

• **Registration number** 01-2119488166-29-0034

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

No further relevant information available.

• **Sector of Use**

SU1 Agriculture, forestry, fishery

SU8 Manufacture of bulk, large scale chemicals (including petroleum products)

• **Product category** PC12 Fertilisers

• **Process category**

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

PROC14 Tableting, compression, extrusion, pelletisation, granulation

PROC19 Manual activities involving hand contact

PROC26 Handling of solid inorganic substances at ambient temperature

• **Environmental release category**

ERC1 Manufacture of the substance

ERC2 Formulation into mixture

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

ERC8e Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)

• **Application of the substance / the mixture**

Fertilizer for agriculture

Blending of fertilizers in batch processes with significant exposure

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

Agriculture: surface spreading or incorporation at open field and/or forest fertilization

Fertigation at open field: liquid fertilizer

1.3 Details of the supplier of the safety data sheet

• **Manufacturer/Supplier:**

Groupe Chimique Tunisien

7, Rue du royaume d'Arabie Saoudite

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Tunisia

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Only Representative in EC:
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Quality Control Department
Tel. +216 75 275 544
Office hours 8:00 - 12:00 and 14:00 - 18:00 (GMT+1)

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 GB CLP regulation.

· **2.2 Label elements**

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

For this product (substance/mixture/article) there is not obligatory requirement to prepare a safety data sheet according article 31 of the regulation (EC) 1907/2006. This information sheet gives relevant details according article 32 of the mentioned regulation.

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **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. Designation:**

7722-76-1 ammonium dihydrogenorthophosphate

· **Identification number(s):**

· **EC number:** 231-764-5

· **Additional information:**

The material is not subject to classification according to EC lists and other sources of literature known to us.

· **Impurities and stabilising additives:**

No impurities > 0,1 % relevant for the classification and labelling of the substance.

· **Description:**

Mineral fertilizers with auxiliary processing aid.

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All ingredients are registered according to UK REACH-regulation.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
 - **General information** If symptoms occur or in case of doubt consult a doctor.
 - **After inhalation** Supply fresh air; consult doctor in case of symptoms.
 - **After skin contact** Rinse with water.
 - **After eye contact**
Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.
In case of permanent aches and pains please go and see the doctor.
 - **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting.
In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
Gastric or intestinal trouble
sickness
vomiting
Cramp
- **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**
The product itself does not burn.
Use fire fighting measures that suit the environment.
 - **For safety reasons unsuitable extinguishing agents** None known.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
ammonia
Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid causing dust.
- **6.2 Environmental precautions:**
Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Collect mechanically.
Do not flush with water or aqueous cleansing agents

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· **6.4 Reference to other sections** See Section 7 for information on safe handling

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SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Prevent formation of dust.

Provide suction extractors if dust is formed.

Avoid contact with eyes and skin.

· **Information about protection against explosions and fires:**

Store it away from ignition sources or open fire.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:** No special requirements.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:**

Store container in a well ventilated position.

Protect from humidity and keep away from water.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**

7722-76-1 ammonium dihydrogenorthophosphate

Oral	DNEL (consumer, long-term, systemic)	0.42 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	8.3 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	4.17 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	5.9 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	1.45 mg/m ³ (human)

· **PNECs**

7722-76-1 ammonium dihydrogenorthophosphate

PNEC STP - Sewage Treatment Plant 10 mg/L (.)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

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

· **General protective and hygienic measures**

Wash hands during breaks and at the end of the work.

Keep away from foodstuffs, beverages and food.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Use a breathing protection if high concentrations are present.

Filter P2.

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• **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• **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.

• **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Neoprene gloves

• **Eye/face protection**



Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

• **9.1 Information on basic physical and chemical properties**

• **General Information**

• Colour:	Red-brown
• Odour:	Characteristic
• Melting point/freezing point:	197 °C
• Boiling point or initial boiling point and boiling range	> 197 °C
• Flammability	Product is not inflammable.
• Flash point:	Not applicable
• SADT	
• pH	Not applicable.
• Solubility	
• Water at 20 °C:	264 g/l
• Partition coefficient n-octanol/water (log value)	Not determined.
• Vapour pressure at 20 °C:	< 0.00001 hPa
• Density and/or relative density	
• Density	Not determined
• Relative density at 20 °C	1.81
• Settled apparent density	930 kg/m ³

• **9.2 Other information**

• **Appearance:**

• **Form:**

Granulate

• **Important information on protection of health and environment, and on safety.**

• **Explosive properties:**

Product is not explosive.

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- **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.
- **10.2 Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Stable up to melting point.
Avoid strong heating.
- **10.3 Possibility of hazardous reactions** Reacts with strong acids
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
acid
Avoid contact with strong oxidizing agents.
- **10.6 Hazardous decomposition products:** Ammonia

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 that are relevant for classification:

7722-76-1 ammonium dihydrogenorthophosphate

Oral	LD50	> 2,000 mg/kg (rat) (OECD 425)
Dermal	LD50	> 5,000 mg/kg (rat) (OECD 402)
Inhalative	LC50	> 5 mg/l/4h (rat) (OECD 403)

- **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.

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- **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.

· **Additional toxicological information:**

The following applies to ammonium salts in general: after swallowing: local irritation symptoms, nausea, vomiting, diarrhoea.

Systemic effect: after uptake of very large quantities: drop in blood pressure, collapse, CNS disorders, spasms, narcotic conditions, respiratory paralysis, hemolysis.

The product contains small amounts of a mineral oil as auxiliary processing aid. This substance is not classified as hazardous to health or environment according to the UK REACH and GB CLP regulations.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

7722-76-1 ammonium dihydrogenorthophosphate

EC50	> 100 mg/l/48h (Daphnia magna) (OECD 202)
LC50 (static)	> 100 mg/l/96h (Oncorhynchus mykiss) (OECD 203)
EC50	> 100 mg/l/72h (Pseudokirchneriella subcapitata) (OECD 201)
	1,790 mg/l/72h (Daphnia magna)

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** Does not accumulate in organisms

- **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:**

Avoid entry of material into waters.

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 bodies or sewage system.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

The waste code numbers mentioned are recommendations based on the probable use of the product.

European waste catalogue

06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03 00	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14	solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 10 00	wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture
06 10 99	wastes not otherwise specified
02 00 00	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01 00	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 09	agrochemical waste other than those mentioned in 02 01 08

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA
Class Void

14.4 Packing group

ADR/RID, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

Not dangerous according to the above specifications.

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· **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Chemical safety assessment**
- **Named dangerous substances - ANNEX I** 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))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **National regulations**

- **Water hazard class:** Water hazard class 1 (Assessment by list): slightly hazardous for water.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing data specification sheet:**

► **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
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· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organisation
ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
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)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

· *** Data compared to the previous version altered.**