Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 19.01.2023 Version No: 1.01 (replaces version 1.00) Revision: 19.01.2023

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

1.1 Product identifier

Trade name: ammonium dihydrogenorthophosphate

CAS Number:
7722-76-1
EC number:
231-764-5

Registration number: 01-2119488166-29-0142

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

Application of the substance / the preparation:
Flame retardant
Fertiliser
Binder
pH-corrective agent
Soldering flux
Food additive
Intermediate

Uses advised against: No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Société Chimique ALKIMIA
11, rue des lilas
1082 Tunis-Mahrajène
Tel.: (+216) 36 080 100
Fax : (+ 216) 71 787 283
Email : Head.office@alkimia.tn

1.4 Emergency telephone number: Tel.: (+216) 36 080 100

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

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

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SECTION 3: Composition/information on ingredients

3.1 Substances
CAS No. Description
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.
If symptoms persist consult doctor.
After inhalation: Supply fresh air.
After skin contact: Generally the product does not irritate the skin.
After eye contact:
Rinse opened eye for several minutes under running water.
Remove contact lenses, if present and easy to do. Continue rinsing.
After swallowing: Rinse mouth.
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:
CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
For safety reasons unsuitable extinguishing agents: Water with full jet
5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide
Carbon dioxide
Nitrogen oxides (NOx)
Phosphorus compounds
5.3 Advice for firefighters
Protective equipment: Wear self-contained respiratory protective device.
Additional information
Cool endangered receptacles with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation.
Wear protective clothing.
Avoid formation of dust.
Keep away from ignition sources.
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.

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Dispose of the material collected according to regulations.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Prevent formation of dust.
Any unavoidable deposit of dust must be regularly removed.
Ensure good ventilation/exhaustion at the workplace.
Information about fire and explosion protection:
Dust can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
Information about storage in one common storage facility: Store away from oxidising agents.
Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

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

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients 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		
Oral	DNEL(long/systemic)	0.42 mg/kg bw/day (Consumer)
Dermal	DNEL(long/systemic)	4.17 mg/kg bw/day (Consumer)
		8.3 mg/kg bw/day (Workers (Industrial/Professional))
Inhalative	DNEL(long/systemic)	1.45 mg/m3 (Consumer)
		5.9 mg/m3 (Workers (Industrial/Professional))

PNECs	
PNEC(STP)	10 mg/L (sewage treatment plant)

8.2 Exposure controls
Appropriate engineering controls No further data; see item 7.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures:
Do not eat, drink, smoke or sniff while working.
Keep away from foodstuffs, beverages and feed.
The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection: Not necessary if room is well-ventilated.
Hand protection
Protective gloves and protective skin cream
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.

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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.
Eye/face protection Safety glasses
Body protection: Protective work clothing
Environmental exposure controls No further relevant information available.

*
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Solid
Form:	Crystalline powder
Colour:	White
Odour:	Odourless
Odour threshold:	Not determined.
Melting point/freezing point:	197 °C
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not applicable.
Upper:	Not applicable.
Flash point:	Not determined.
Ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH	4.2
Viscosity:	
Kinematic viscosity	Not applicable.
Dynamic:	Not applicable.
Solubility	
water at 20 °C:	100 g/L
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	1.81 g/cm³
Relative density	Not determined.
Vapour density	Not applicable.
Relative gas density	Not applicable.
Particle characteristics	See item 3.

9.2 Other information

Explosive properties:	Product does not present an explosion hazard.
Oxidising properties	No
Evaporation rate	Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.
10.2 Chemical stability No decomposition if used and stored according to specifications.
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.

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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:		
Oral	LD50	> 2000 mg/kg (Rat) (OECD Guideline 425)
Inhalative	LC50 (4h)	> 5 mg/L (Rat) (OECD Guideline 403, inhalation:dust)

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:	
LC50 (96h) (static)	> 100 mg/L (Fish) (OECD Guideline 203, Oncorhynchus mykiss) Nominal
EC0 (48h) (static)	> 100 mg/L (Daphnia) (OECD Guideline 202, Daphnia magna) Nominal
EC50 (3h) (static)	> 100 mg/L (Bacteria) (OECD Guideline 209, activated sludge) Nominal
EC50 (72h) (static)	> 100 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata) Nominal
NOEC (3h) (static)	100 mg/L (Bacteria) (OECD Guideline 209, activated sludge) Nominal
NOEC (96h) (static)	100 mg/L (Fish) (OECD Guideline 203, Oncorhynchus mykiss) Nominal
NOEC (72h) (static)	100 mg/L (Algae) (OECD Guideline 201, Pseudokirchneriella subcapitata) Nominal

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 Not applicable.

12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation: Must be specially treated adhering to official regulations.

Uncleaned packaging
Recommendation: Disposal must be made according to official regulations.

* 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/ADN, 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.

Transport/Additional information: Not dangerous according to the above specifications.
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.

15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

To our best knowledge, the information provided in this Safety Data Sheet is accurate as of the date of issue. The information it contains is provided for guidance and security relates only to the specific material and uses described therein. This information does not necessarily apply to that material when in combination with other (s) item (s) when used in a manner other than that described herein. The final determination regarding the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Société Chimique ALKIMIA not be

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responsible for loss or damage arising from the use of any data, information or recommendations contained in this Safety Data Sheet.

Date of previous version: 06.08.2021
Version number of previous version: 1.00

Abbreviations and acronyms:
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
UN: United Nations (also UNO: United Nations Organization)
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
ASTM: American Society for Testing and Materials
WAF: Water Accommodated Fraction
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 (REACH)
PNEC: Predicted No-Effect Concentration (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.**