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

revised on: 27.07.2022

Version number 4

Creation Date: 05.04.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking
· 1.1 Product identifier
· Trade name: Ammonium dihydrogenphosphate
<ul> <li>Trade name: Ammonium dihydrogenphosphate</li> <li>Article number: 2851</li> <li>CAS Number: 7722-76-1</li> <li>Ec number: 231-764-5</li> <li>Registration number 01-2119948166-29-XXXX</li> <li>A Relevant identified uses of the substance or mixture and uses advised against</li> <li>Life cycle stage</li> <li>F Formulation or re-packing</li> <li>Is Use at industrial Sites</li> <li>Sector of Use</li> <li>SU3 - Industrial user: Uses of substances as such or in preparations at industrial sites</li> <li>SU9 - Manufacture of fine chemicats</li> <li>SU10 - Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</li> <li>SU2 - Scientific research and development</li> <li>Product category</li> <li>PC19 - Intermediate</li> <li>PC20 - Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents</li> <li>PC21 - Demical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.</li> <li>PROC2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions.</li> <li>PROC3 - Themical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions.</li> <li>PROC3 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)</li> <li>PROC3 - Transfer of substance error mixture into small containers (dedicated filling line, including weighing)</li> <li>PROC3 - Transfer of substance the mixture</li> <li>Excit of the substance the mixture</li> <li>Excit of the substance the mixture</li> <li>Laboratory chemicals</li> <li>Reagent for analysis</li> <li>Reagent for analysis</li> <li>Rution of the substance the mixture</li> <li>Laboratory chemicals</li> <li>Reagent for analysis</li> <li>Hourisc</li></ul>
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sicherheitsdatenblaetter@thgeyer.de

- Further information obtainable from: Product management department
- · 1.4 Emergency telephone number:

National Poisons Information Service City Hospital Dudley Road Birmingham B18 7QH Tel.:Emergency: (00 44) 87 06 00 62 66 Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

## **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 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.

## **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:

First aider needs to protect himself.

Immediately remove any clothing soiled by the product.

- After inhalation:
- Supply fresh air.

Seek medical treatment in case of complaints.

After skin contact:

Flush contaminated skijn with soap and plenty of water.

After prolonged contact or any signs of skin changes (redness or other signs of inflammation) seek medical attention.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Remove contact lenses.

• After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

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- · Information for doctor: Please observe safety data sheet/label.
- · 4.2 Most important symptoms and effects, both acute and delayed Gastric or intestinal disorders
- 4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

## **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

- Suitable extinguishing agents: 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
- Not combustible.

Ambient fire may liberate hazardous vapours.

In case of fire, the following can be released:

Nitrogen oxides (NOx)

Phosphorus oxides

Carbon monoxide (CO)

5.3 Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Avoid formation of dust. Do not inhale dust.

Avoid contact with eyes and skin.

- 6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Cover drains.

Take up dry.

Dispose of the material collected according to regulations. Clean-up.

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 Keep away from heat and direct sunlight. Apply the general protection and hygiene measures for the handling with chemicals. Store in cool, dry place in tightly closed receptacles. No special measures required.
Information about fire - and explosion protection: Substance itself does not burn, tuning measures to environment
7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: Store only in the original receptacles

• 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 water.

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## Further information about storage conditions:

Protect from humidity and water.

Keep container tightly sealed.

Store in dry conditions.

• Storage class: 13

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

## **SECTION 8: Exposure controls/personal protection**

· 8.1 Control parameters

• Additional information about design of technical facilities: No further data; see item 7.

- · 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
- Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Not required.
- Protection of hands:



Protective gloves

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.

Nitrile rubber, NBR Material thickness > 0.11 mm

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.

level 6 for application > 480 min

## Eye protection:

Recommendation: Wear tightly fitting safety goggles



Safety glasses

Body protection:



Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments).

## **SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:
  - Form: Colour:

Solid material Colourless

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Odour:	Odourless	
pH-value:	3.8–4.4	
Change in condition		
Melting point/freezing point:	190 °C	
Initial boiling point and boiling range	: Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Product is not flammable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	1.81 g/cm <sup>3</sup>	
-	Not determined.	
Bulk density:	1,100 kg/m³	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water at 20 °C:	370 g/l	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
9.2 Other information	No further relevant information available.	

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability Stable with proper storage and handling.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions NaClO
- · 10.4 Conditions to avoid

Protect from humidity.

Heat, flames and sparks

• 10.5 Incompatible materials: Avoid contact with other chemicals.

· 10.6 Hazardous decomposition products:

In case of fire / burns, development of hazardous combustion gases or vapors possible.

Ammonia

Phosphorus compounds

## **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

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

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- · Primary irritant effect:
- · 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.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- 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.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability biodegradable
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 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.

- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

## **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods Observe local (country-specific) regulations and laws

· Recommendation

Smaller quantities can be disposed of with household waste.

Chemicals must be disposed of in compliance with the respective national regulations.

## · European waste catalogue

06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES

06 13 00 wastes from inorganic chemical processes not otherwise specified

06 13 99 wastes not otherwise specified

· Uncleaned packaging:

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

## SECTION 14: Transport information

14.1 UN-Number
 ADR, ADN, IMDG, IATA

not regulated

not regulated

· 14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

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· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	not regulated	
<sup>·</sup> 14.4 Packing group		
· ADR, IMDG, IATA	not regulated	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Ann	ex II of	
Marpol and the IBC Code	Not applicable.	
· UN "Model Regulation":	not regulated	
-	-	

## **SECTION 15: Regulatory information**

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

- · Inventory of Hazardous Chemicals Substance is not listed.
- · 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:

- Information about limitation of use:
- Employment restrictions concerning juveniles must be observed.
- Employment restrictions concerning pregnant and lactating women must be observed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has 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. Application, use and handling of our products take place out of our control and are solely your responsibility.

- Department issuing SDS: Product management
- · Contact: Product management
- Abbreviations and acronyms:
- 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)
- PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative • \* Data compared to the previous version altered.

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## Annex: Exposure scenario

• Short title of the exposure scenario Chemicals for Laboratory and industrial use Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites SU9 Manufacture of fine chemicals SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU24 Scientific research and development Product category PC19 Intermediate PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents PC21 Laboratory chemicals PC29 Pharmaceuticals PC39 Cosmetics, personal care products PC40 Extraction agents 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 PROC4 Chemical production where opportunity for exposure arises PROC5 Mixing or blending in batch processes PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC15 Use as laboratory reagent · Environmental release category ERC1 Manufacture of the substance ERC2 Formulation into mixture ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article) ERC6a Use of intermediate · Description of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet. · Conditions of use · Duration and frequency 5 workdays/week. · Worker 8hrs (full working shift). • Environment The product must not enter the sewage system or the aquatic environment. Physical parameters Physical state Solid · Concentration of the substance in the mixture Raw material. · Other operational conditions · Other operational conditions affecting environmental exposure Observe section 6 of the Safety Data Sheet (Accidental release measures). Other operational conditions affecting worker exposure Observe section 6 of the Safety Data Sheet (Accidental release measures). Observe instructions for use / storage. · Other operational conditions affecting consumer exposure Not required. • Other operational conditions affecting consumer exposure during the use of the product Not applicable. · Risk management measures · Worker protection · Organisational protective measures Consider section 4 of the Safety Data Sheet (First aid measures). Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed. • Technical protective measures Ensure good ventilation/exhaustion at the workplace. · Personal protective measures Protective work clothing (e. g. safety shoes EN ISO 20345, long-sleeved protective working garments). The usual precautionary measures are to be adhered to when handling chemicals.

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No special measures required.
<ul> <li>Measures for consumer protection No special measures required.</li> </ul>
· Environmental protection measures
· <b>Air</b> No special measures required.
<ul> <li>Water Do not allow to reach ground water, water bodies or sewage system.</li> <li>Soil Prevent contamination of soil.</li> </ul>
• Notes In case of unintended release of the product: See section 6 of the Safety Data Sheet.
• <b>Disposal measures</b> Ensure that waste is collected and contained.
• <b>Disposal procedures</b> Dispose of product residues with household waste.
• Waste type Partially emptied and uncleaned packaging
· Exposure estimation
• Worker (oral) Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra.
Worker (dermal) Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra.
• Worker (inhalation) Detailed information on the exposure estimation can be found at http://www.ecetoc.org/tra.
· Environment
Detailed information on the estimation of the environmental exposure can be found at http://
ecb.jrc.ec.europa.eu/euses/.
· <b>Consumer</b> Not relevant for this Exposure Scenario.
· Guidance for downstream users
For the risk assessment, the tools recommended by ECHA can be used.
No further relevant information available.
E