according to Regulation (EC) No. 1907/2006

# Monoammonium phosphate Granular



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Region: LV Print Date: 22.04.2024

Language: EN

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

1.1 Product identifier

Trade name : Monoammonium phosphate Granular

Product code 106389

REACH Registration Number : 01-2119488166-29

Substance name : Ammonium dihydrogenorthophosphate

CAS-No. 7722-76-1

EC-No. 231-764-5

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

Use of the Sub-Fertilizers, Binding agents, fire-retardant impregnating liquid, stance/Mixture

Chemical processes general, Food/ feedstuff additives, Food

additive, Laboratory chemicals

Uses advised against : No data available.

1.3 Details of the supplier of the safety data sheet

Company : HELM AG

> Nordkanalstrasse 28 20097 Hamburg

Telephone : +49/4023750

Telefax +49/4023751845

E-mail address of person

responsible for the SDS

: SDB@HELMAG.COM

## 1.4 Emergency telephone number

For medical advice:

+371 67042473 (Emergency Center Latvia)

+44 1865 407333 (NCEC, National Chemical Emergency Centre)

In case of transport incidents and other emergencies:

+44 1865 407333 (NCEC, National Chemical Emergency Centre)

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### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

## Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Substance name : Ammonium dihydrogenorthophosphate

CAS-No. : 7722-76-1

EC-No. : 231-764-5

Remarks : No hazardous ingredients

### 3.2 Mixtures

Not applicable

#### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : Take off all contaminated clothing immediately.

Call a doctor immediately if allergic signs, particularly in the

respiratory tract, are observed.

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When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

In case of skin contact : In case of skin contact

Wash off with plenty of water.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

diately with plenty of water, also under the eyelids, for at least

15 minutes.

Protect unharmed eye.

If swallowed : Rinse mouth with water.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

## **SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Dry chemical

Carbon dioxide (CO2)

Water spray

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod: :

ucts

Phosphorus oxides (e.g. phosphoruspentoxide)

Ammonia

Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment :

In the event of fire, wear self-contained breathing apparatus.

for firefighters

Use personal protective equipment.

Further information : Extinguishing measures to suit surroundings.

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

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

Personal precautions : Refer to protective measures listed in sections 7 and 8.

**6.2 Environmental precautions** 

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Do not allow uncontrolled discharge of product into the envi-

ronment

Inform the responsible authorities in case of gas leakage, or of

entry into waterways, soil or drains.

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

Methods for cleaning up : Pick up and arrange disposal without creating dust.

Use mechanical handling equipment.

#### 6.4 Reference to other sections

Information regarding safe handling, see chapter 7. For personal protection see section 8. For disposal considerations see section 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advice on safe handling : Handle with care. Avoid inhalation, ingestion and contact with

skin and eyes. Provide sufficient air exchange and/or exhaust

in work rooms.

Avoid the formation and deposition of dust.

Advice on protection against

fire and explosion

No specific measures identified.

Hygiene measures : Avoid contact with skin, eyes and clothing. Contaminated work

clothing should not be allowed out of the workplace. Wash hands before breaks and at the end of workday. Wash hands

before eating, drinking, or smoking.

Do not breathe dust.

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

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and wellventilated place. Containers which are opened must be care-

according to Regulation (EC) No. 1907/2006

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fully resealed and kept upright to prevent leakage. Keep in

properly labelled containers.

Advice on common storage : Substances to be avoided, pls. See chapter 10.

Further information on stor-

age stability

Recommended storage temperature: room temperature.

7.3 Specific end use(s)

Specific use(s) : No data available.

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

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Ammonium dihy- drogenorthophos- phate	Workers	Inhalation	Long-term exposure, Chronic effects, Sys- temic effects	6,1 mg/m3
	Workers	Dermal	Long-term exposure, Chronic effects, Sys- temic effects	34,7 mg/kg bw/day
	Consumers	Inhalation	Long-term exposure, Chronic effects, Sys- temic effects	1,8 mg/m3
	Consumers	Dermal	Long-term exposure, Chronic effects, Sys- temic effects	20,8 mg/kg bw/day
	Consumers	Oral	Long-term exposure, Chronic effects, Sys- temic effects	2,1 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Ammonium dihy-	Fresh water	1,7 mg/l
drogenorthophosphate		_
	Marine water	0,17 mg/l
	Aqua intermittent	17 mg/l
	Sewage treatment plant	10 mg/l

## 8.2 Exposure controls

### **Engineering measures**

Effective exhaust ventilation system

Maintain air concentrations below occupational exposure standards.

according to Regulation (EC) No. 1907/2006

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### Personal protective equipment

Eye protection : Safety glasses with side-shields

Equipment should conform to EN 166

Hand protection

Remarks : Protective gloves complying with EN 374.Gloves must be

inspected prior to use. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any

indication of degradation or chemical breakthrough.

Material : Rubber
Glove thickness : 0,5 mm
Material : butyl-rubber
Glove thickness : 0,35 mm

Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Skin and body protection : Choose body protection in relation to its type, to the concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Preventive skin protection

Respiratory protection : Apply technical measures to comply with the occupational

exposure limits.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values

are not specified.

Filter type : P1 filter

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

#### 9.1 Information on basic physical and chemical properties

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Physical state : solid

Colour : white

Odour : characteristic

Odour Threshold : No data available

No data available

Melting point/range : 197 °C

Source: ECHA

Boiling point/boiling range : No data available

Upper explosion limit / Upper

flammability limit

No data available

No data available

Lower explosion limit / Lower

flammability limit

No data available

No data available

Flash point : Not applicable

Not applicable

Source: ECHA, does not flash

Auto-ignition temperature : Not applicable

No data available

No data available

Decomposition temperature : No decomposition below 200°C.

pH : 7,6 - 8,2 (20 °C)

Concentration: 100 g/l

Viscosity

Viscosity, kinematic : No data available

No data available

Solubility(ies)

Water solubility :  $> 100 \text{ g/l} (20 ^{\circ}\text{C})$ 

Source: ECHA

Solubility in other solvents : No data available

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No data available

Partition coefficient: n-

octanol/water

No data available

No data available

Vapour pressure : No data available

No data available

Source: ECHA

Relative density : 1,81 (20 °C)

Source: ECHA

Density : No data available

No data available

Relative vapour density : No data available

No data available

Particle characteristics

Particle size : No data available

No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : not oxidizing

Molecular weight : 115,03 g/mol

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

## 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

## 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

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10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Acids

**Bases** 

Alkali metals Oxidizing agents

10.6 Hazardous decomposition products

None, when used as directed.

**SECTION 11: Toxicological information** 

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** 

Not classified due to lack of data.

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

**Aspiration toxicity** 

Not classified due to lack of data.

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#### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### **Product:**

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

## 12.6 Endocrine disrupting properties

#### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.

according to Regulation (EC) No. 1907/2006

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Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

Avoid discharge to drain or surface water.

Contaminated packaging Packaging that is not properly emptied must be disposed of as

the unused product.

## **SECTION 14: Transport information**

#### 14.1 UN number or ID number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks Not classified as dangerous in the meaning of transport regu-

lations.

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

Not applicable for product as supplied.

### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered: Ammonium dihydrogenorthophos-

phate (Number on list 65)

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not listed

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not listed

Regulation (EU) 2019/1021 on persistent organic pollu-: Not listed

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tants (recast)

Regulation (EC) No 649/2012 of the European Parlia-Not applicable ment and the Council concerning the export and import

of dangerous chemicals

REACH - List of substances subject to authorisation Not listed

(Annex XIV)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving

dangerous substances.

Not applicable

#### Other regulations:

Adhere to the national sanitary and occupational safety regulations when using this product.

Cabinet Regulation No.325 of 15 May 2007 (as amended) "Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces".

Cabinet of Ministers, Regulation No. 113 (18.02.2021) on "Procedures for accounting of waste and its shipments"

Cabinet Regulation No.795 of 22 December 2015 on Procedures for Registration of Chemical Substances and Mixtures and Their Database.

### The components of this product are reported in the following inventories:

**TCSI** On the inventory, or in compliance with the inventory

**TSCA** All substances listed as active on the TSCA inventory

AIIC On the inventory, or in compliance with the inventory

DSL All components of this product are on the Canadian DSL

**ENCS** On the inventory, or in compliance with the inventory

**ISHL** On the inventory, or in compliance with the inventory

**KECI** On the inventory, or in compliance with the inventory

**PICCS** On the inventory, or in compliance with the inventory

**IECSC** On the inventory, or in compliance with the inventory

**NZIoC** Not in compliance with the inventory

**TECI** On the inventory, or in compliance with the inventory

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#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

#### **SECTION 16: Other information**

#### Sources of key data used to compile the Safety Data Sheet

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### **Further information**

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Other information : Safety data sheet according to regulation (EC) No. 2020/878

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The safety data sheet describes products with a view to safety requirements. It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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