

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

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

1.1. Product identifier

Product name : Ammonium phosphate dibasic
SDS-number : 000000020917
Type of product : Substance
Remarks : Document according to Art. 32 of Regulation (EC) 1907/2006.
Chemical name : Diammonium hydrogenorthophosphate
CAS-No. : 7783-28-0
REACH Registration Number : no data available

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

Use of the Substance/Mixture : Laboratory chemicals
Uses advised against : none

1.3. Details of the supplier of the safety data sheet

Company	: Honeywell International Inc. 115 Tabor Road 07950-2546 Morris Plains USA	Honeywell International, Inc. 115 Tabor Road Morris Plains, NJ 07950-2546 USA
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Telephone :
For further information, please contact: : SafetyDataSheet@Honeywell.com

1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)
+1-303-389-1414 (Medical)
Country based Poison : see chapter 15.1

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

Control Center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label elements

REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other hazards

Does not require a hazard warning label, but the normal safety precautions for handling of chemicals must be observed.

SECTION 3: Composition/information on ingredients

3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Diammonium hydrogenorthophosphate	7783-28-0 231-987-8		100 %	N.C.*

N.C.* - Non-hazardous substance - for information only

3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8.

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

Show this safety data sheet to the doctor in attendance.

Inhalation:

Remove to fresh air. If respiratory problems develop, obtain medical attention.

Skin contact:

Wash off with soap and water. If skin irritation persists, call a physician.

Eye contact:

Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion:

Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Extinguishing media which shall not be used for safety reasons:

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

Nitrogen oxides (NO_x)
Oxides of phosphorus

5.3. Advice for firefighters

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid dust formation. Wear appropriate personal protective equipment.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and materials for containment and cleaning up

Take up mechanically and collect in suitable container for disposal.

Pick up and arrange disposal without creating dust.

Dispose of in accordance with local regulations.

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

Never return spills in original containers for re-use.

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling:

Handle and open container with care. Avoid dust formation. Avoid contact with skin and eyes. Provide exhaust ventilation if dust is formed.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection. The product itself does not burn.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions:

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

no additional data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

DNEL/ PNEC-Values

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
Diammonium hydrogenorthophosphate	Workers / Long-term systemic effects		5,9 mg/m ³	Inhalation	

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

Diammonium hydrogenorthophosphate	Workers / Long-term systemic effects		8,3mg/kg bw/d	Skin contact	
Diammonium hydrogenorthophosphate	Consumers / Long-term systemic effects		1,45 mg/m3	Inhalation	
Diammonium hydrogenorthophosphate	Consumers / Long-term systemic effects		4,17mg/kg bw/d	Skin contact	
Diammonium hydrogenorthophosphate	Consumers / Long-term systemic effects		0,42mg/kg bw/d	Ingestion	

Component	Environmental compartment / Value	Remarks
Diammonium hydrogenorthophosphate	Sewage treatment plant: 10 mg/l	Assessment factor: 10

8.2. Exposure controls

Occupational exposure controls

Handle in accordance with good industrial hygiene and safety practice.
The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection:

In the case of dust or aerosol formation use respirator with an approved filter.
Disposable filtering half mask Class FFP1 (EN149).

Hand protection:

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

Glove material: Natural Latex
Break through time: > 480 min
Glove thickness: 0,6 mm
Lapren®706

Gloves must be inspected prior to use.
Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer´s directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection:

Safety glasses with side-shields

Skin and body protection:

Lightweight protective clothing

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : solid
Colour : white
Odour : odourless
molecular weight : 132,06 g/mol
Melting point : 155 °C
(decomposition)

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

Flammability	:	The product is not flammable.
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No decomposition if used as directed.
pH	:	7,5 - 9,0 Concentration: 132,1 g/l at 25 °C
Viscosity, kinematic	:	No data available
Water solubility	:	132,1 g/l at 20 °C
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Density	:	ca. 1,62 g/cm ³ at 20 °C
Bulk density	:	ca. 1.000 kg/m ³
Relative vapour density	:	No data available

9.2 Other Information

Evaporation rate	:	No data available
Viscosity, dynamic	:	No data available

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Strong oxidizing agents

Strong bases

Strong acids

10.6. Hazardous decomposition products

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

Nitrogen oxides (NO_x)

Oxides of phosphorus

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

LD50

Species: Rat

Value: > 2.000 mg/kg

Acute dermal toxicity:

LD50

Species: Rat

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

Value: 5.000 mg/kg

Acute inhalation toxicity:

LD50

Species: Rat

Value: > 5 mg/l

Exposure time: 4 h

Skin irritation:

No skin irritation

Eye irritation:

No eye irritation

Respiratory or skin sensitisation:

Result: Not a skin sensitizer.

Aspiration hazard:

No data available

11.2. Information on other hazards

Endocrine disrupting properties

No data available

Other information:

No toxicology information is available.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish:

LC50

Species: Freshwater fish

Value: 1.700 mg/l

Exposure time: 96 h

Toxicity to aquatic plants:

EC50

Species: Raphidocelis subcapitata (freshwater green alga)

Value: > 97,1 mg/l

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

Exposure time: 72 h

Toxicity to aquatic invertebrates:

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

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

No data available

12.7. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

Dispose according to legal requirements. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

Packaging:

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information:

Provisions relating to waste:

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

EC Directive 2006/12/EC; 2008/98/EEC
Regulation No. 1013/2006

For personal protection see section 8.

SECTION 14: Transport information

14.1 UN number

ADR/RID:Not dangerous goods IMDG:Not dangerous goods IATA:Not dangerous goods

14.2 UN proper shipping name

ADR/RID:Not dangerous goods
IMDG:Not dangerous goods
IATA:Not dangerous goods

14.3 Transport hazard class(es)

14.4 Packaging group

14.5 Environmental hazards

ADR/RID:no Marine pollutant: no

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

Basis	Value	Remarks
Substances of very high concern (SVHC)		This product does not contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1\%$ (w/w).

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

Poison Control Center

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390
Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
Munich : 089/19240	
Latvia	+37167042473

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	800250250
Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftninformation); +46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

Other inventory information

US. Toxic Substances Control Act

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

On TSCA Inventory

Australia. Industrial Chemicals Act (AIC), as amended
On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)
All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List
On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI)
On the inventory, or in compliance with the inventory

Philippines. Inventory of Chemicals and Chemical Substances (PICCS)
On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC)
On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand
On the inventory, or in compliance with the inventory

Taiwan Chemical Substance Inventory (TCSI)
On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Further information

All directives and regulations refer to amended versions.
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community
CAS Chemical Abstracts Service
DNEL Derived no effect level
PNEC Predicted no effect level

Ammonium phosphate dibasic

30402-1KG

Version 1.4

Revision Date 03.07.2022

vPvB Very persistent and very bioaccumulative substance
PBT Persistent, bioaccumulative und toxic substance

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