

# SAFETY DATA SHEET

#### Feeding the Future Diammonium Phosphate, Granular 18-46-0

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

### 1.1 Product identifier

: Diammonium Phosphate, Granular 18-46-0 **Product name** 

**EC** number : 231-987-8

**REACH Registration number** 

Registration number	Substance
01-2119490974-22-XXXX	Diammonium hydrogenorthophosphate

**CAS** number : Not applicable.

**Product code** : 1527-27930; 1527-27975; 1527-30127; 1527-30277; 1527-30651; 4466-27930,

4660-27930

**Product description** : EC FERTILISER NP Fertiliser, Granulated 18-46-0

**Product type** : Solid.

Other means of : Synonym: DAP

identification

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

Identified uses					
Fertiliser. Manufacture of chemical products. Manufacture of speciality fertilisers.					
Uses advised against Reason					
None.	Non-hazardous product.				

### 1.3 Details of the supplier of the safety data sheet

Mutrien Europe SA Avenue Louise 326/36 1050 Bruxelles Belaium

Tel: +32 (0)2 646 70 00 Fax: +32 (0)2 646 68 60 commercial@nutrien.eu

Telephone number

e-mail address of person responsible for this SDS

: productsafety@nutrien.com

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

: Nutrien Safety Data Sheets are available in many languages at https://agproducts.

nutrien.com/products/

Physicians, Poison Centres, or the Public may contact Nutrien's Global Emergency Response Number 24/7/365 for service in many languages at +1 303 389 1654

AUSTRIA +43 1 406 43 43 AZERBAIJAN +994 125 979 924 BELARUS +375 17 287 00 92 BELGIUM +32 70 245 245

BULGARIA +359 2 9154 378; +359 887 435 325

CROATIA +358 1 2348 342

CZECH REPUBLIC +420 22 49 192 93

DENMARK +45 82 12 12 12 ESTONIA 16662; +372 62 69 379

Date of issue/Date of revision : 3/22/2019 Date of previous issue 1/16 : 8/2/2018 Version: 3.4

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

FINLAND +358 9 471977 **FRANCE** Angers +33 (0)2 41 48 21 21 Bordeaux +33 (0)5 56 96 40 80 Lille 0800 59 59 59 (national callers) Lyon +33 (0)4 72 11 69 11 Marseille +33 (0)4 91 75 25 25 Nancy +33 (0)3 83 22 50 50 Paris +33 (0)1 40 05 48 48 Rennes +33 (0)2 99 59 22 22 Strasbourg +33 (0)3 88 37 37 37 Toulouse +33 (0)5 61 77 74 47 GEORGIA +995 99 53 33 20 **GERMANY** Berlin +49 30 192 40 Bonn +49 228 192 40 Erfurt +49 361 730 730 Freiburg +49 761 192 40 Goettingen +49 551 192 40 Homburg (Saar) +49 6841 192 40 Mainz +49 6131 192 40 Munich +49 89 192 40 GREECE +30 21 07 79 37 77 HUNGARY +36 80 20 11 99 ICELAND +354 543 22 22 IRELAND +353 1 837 9964 (medical professionals) +353 1 809 2166 (public) ISRAEL +972 4 854 19 00 **ITALY** Bergamo +39 800 883 300 Firenze +39 55 794 7819 Foggia +39 881 732 326 Genoa +39 10 563 62 45 Milan +39 02 6610 1029 Padova +39 49 827 50 78 Pavia +39 38 224 444 Rome +39 06 305 43 43 Turin +39 011 663 7637 KAZAKHSTAN +7 3272 925 868 LITHUANIA +370 5 236 20 52; +370 687 533 78 NETHERLANDS +31 30 274 88 88 NORWAY +47 22 59 13 00 **POLAND** Gdansk +48 58 682 04 04 Krakow +48 12 411 99 99 Lòdz +48 42 63 14 724 Sosnowiec +48 32 266 11 45 Warszawa +48 22 619 66 54 Wroclaw +48 71 343 30 08 PORTUGAL 808 250 143 (national callers) ROMANIA +402 212 106 282 RUSSIAN FEDERATION Ekaterinburg +7 343 229 98 57 Moscow +7 495 628 1687 Saint-Petersburg +7 921 757 3228 SERBIA +381 11 3608 440 SLOVAKIA +421 2 5477 4166 SLOVENIA +386 41 635 500 SPAIN +34 91 562 0420 SWEDEN 112 (national callers); +46 (0)10 456 6700 SWITZERLAND +41 44 251 51 51 (in Switzerland dial 145)

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 2/16

THE FORMER YUGOSLAVIA +38 923 147 635

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

TURKEY +90 0312 433 70 01 or 0 800 314 7900

UNITED KINGDOM Belfast 844 892 0111 Birmingham 844 892 0111 Edinburgh 844 892 0111

Newcastle Upon Tyne +44 191 2606182; +44 191 2606180

Penarth 844 892 0111

**Supplier** 

Telephone number : Nutrien Europe SA

**EMERGENCY TELEPHONE NUMBERS:** Transportation: 00-1-303-389-1654 Medical: 00-1-303-389-1654

**Hours of operation** : 24/7/365

## SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Product definition** Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The product is NOT classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

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

#### 2.2 Label elements

**Hazard pictograms** 



Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

: Read label before use. Keep out of reach of children. If medical advice is needed, **General** 

have product container or label at hand.

**Prevention** : Not applicable. Response : Not applicable. : Not applicable. **Storage Disposal** : Not applicable.

Supplemental label Safety data sheet available on request.

elements

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

**Special packaging requirements** 

Containers to be fitted with child-resistant

: Not applicable.

fastenings

Tactile warning of danger : Not applicable.

Date of issue/Date of revision 3/16 : 3/22/2019 Date of previous issue : 8/2/2018 Version: 3.4

## **SECTION 2: Hazards identification**

#### 2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

: Not applicable.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: Not applicable.

Other hazards which do not result in classification

: Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

# SECTION 3: Composition/information on ingredients

#### 3.1 Substances : Mono-constituent substance

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Diammonium hydrogenorthophosphate	EC: 231-987-8 CAS: 7783-28-0 REACH Reg.#: 01-2119490974-22-XXXX	>70	Not classified.	[A]
Monoammonium phosphate	EC: 231-764-5 CAS: 7722-76-1 REACH Reg.#: 01-2119488166-29-XXXX	<10	Not classified.	[B]
Ammonium sulphate	REACH #: 01-2119455044-46 EC: 231-984-1 CAS: 7783-20-2	<9.89	Not classified.	[B]
Calcium sulphate, dihydrate	EC: 231-900-3 CAS: 10101-41-4 REACH Reg.#: 01-2119444918-26-XXXX	<10	Not classified.	[B]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

## **Type**

[A] Constituent

[B] Impurity

[C] Stabilising additive

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

## 4.1 Description of first aid measures

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation

: No special measures are typically indicated. Get medical attention if symptoms occur. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact

: Wash with soap and water.

Ingestion

: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. Mouth-to-mouth resuscitation of oral exposure patients is not recommended. First-aiders with contaminated clothing should be properly decontaminated.

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 4/16

Diammonium Phosphate, Granular 18-46-0

## SECTION 4: First aid measures

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

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

> irritation redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact No specific data. Ingestion : No specific data.

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

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. For professional, multilingual, medical support, in case of medical emergencies involving Nutrien products, telephone the Nutrien global 24 hour Emergency Number: 00-1-303-389-1654.

**Specific treatments** : No specific treatment. Treat symptomatically.

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Non-flammable. Material will not burn. Use an extinguishing agent suitable for the

surrounding fire.

: None known.

**Unsuitable extinguishing** 

media

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : No specific fire or explosion hazard.

**Hazardous combustion** products

Decomposition products may include the following materials: nitrogen oxides

sulfur oxides

## 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

: Contain and collect the water used to fight the fire for later treatment and disposal. **Additional information** 

## SECTION 6: Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Avoid breathing dust.

For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Date of issue/Date of revision : 3.4 5/16 : 3/22/2019 Date of previous issue : 8/2/2018 Version

Diammonium Phosphate, Granular 18-46-0

## SECTION 6: Accidental release measures

6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, waterways, soil or air).

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

**Small spill** 

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

or

Recover the material and use it for its intended purpose.

Large spill

: Recover the material and use it for its intended purpose. Recycle to process, if

possible.

6.4 Reference to other

sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

## 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Avoid breathing

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. May form steep piles that can collapse without warning when stored in bulk. Avoid forming steep slopes when removing product. Ensure that bulk bags or smaller packaged products stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, rolling, or collapse. Use caution when opening truck or railcar doors as product may have shifted during transport.

Must be stored in a dry location. Absorbs moisture on long-term storage under high humidity conditions. Store away from incompatible materials (see Section 10). When product is stored in sealable containers, keep container tightly closed and sealed until ready for use. Sealable containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

## 7.3 Specific end use(s)

Recommendations : Not available. Non-hazardous substance.

Industrial sector specific : Not available. Non-hazardous substance.

solutions

# SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

## **Occupational exposure limits**

No exposure limit value known.

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 6/16

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

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredient name	Type	Exposure	Value	Population	Effects
Diammonium phosphate	DNEL	Long term Inhalation	6.1	Workers	Systemic
Monoammonium phosphate	DNEL	Long term Inhalation	6.1	Workers	Systemic
Ammonium sulphate	DNEL	Long term Inhalation	11.2	Workers	Systemic

## **DNEL/DMEL Summary**

: Very low toxicity to humans or animals.

#### **PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
Diammonium phosphate Monoammonium phosphate Ammonium sulphate	Fresh water Fresh water Fresh water	1.7	Assessment Factors Assessment Factors Assessment Factors

**PNEC Summary** 

: Very low acute toxicity to fish.

#### 8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

## Individual protection measures

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

**Eye/face protection** 

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

## Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

## **Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or cotton/synthetic overalls or coveralls are normally suitable.

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 7/16

# SECTION 8: Exposure controls/personal protection

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Suitable protective footwear.

**Respiratory protection** 

No personal respiratory protective equipment is normally required. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** : Solid. [Crystalline granules.]

Colour Off-white or Black to Brownish-red.

Odour Odourless. **Odour threshold** Not available. pН Not available. Melting point/freezing point 189.85°C

Initial boiling point and boiling

range

: Not applicable. Decomposes.

: [Product does not sustain combustion.] Flash point

**Evaporation rate** : Not applicable. Flammability (solid, gas) Non-flammable. Upper/lower flammability or : Not applicable.

explosive limits

Vapour pressure : 0 kPa [room temperature]

Vapour density Not applicable.

**Relative density** 1.6

Solubility(ies) Easily soluble in the following materials: hot water. Soluble in the following materials: cold water.

Partition coefficient: n-octanol/: Not available.

water

**Auto-ignition temperature** : Not applicable.

**Decomposition temperature** : 155°C

**Viscosity** : Not applicable.

**Explosive properties** This material is not explosive. **Oxidising properties** : No oxidising ingredients present.

9.2 Other information

Solubility in water : >100 g/l

No additional information.

Date of issue/Date of revision : 3/22/2019 :8/2/2018 8/16 Date of previous issue Version : 3.4

Diammonium Phosphate, Granular 18-46-0

# **SECTION 10: Stability and reactivity**

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

**10.5 Incompatible materials** : No specific data.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Diammonium phosphate	LC50 Inhalation Dusts and mists	Rat - Male,	>5 mg/l	4 hours
		Female		
	LD50 Dermal	Rat - Male,	>5000 mg/kg	-
		Female		
	LD50 Oral	Rat - Male,	>2000 mg/kg	-
		Female		
Monoammonium phosphate	LC50 Inhalation Dusts and mists	Rat - Male,	>5 mg/l	4 hours
		Female		
	LD50 Oral	Rat - Male,	>2000 mg/kg	-
		Female		
Ammonium sulphate	LD50 Oral	Mouse - Male,	3040 mg/kg	-
		Female		
	LD50 Oral	Rat	2840 mg/kg	-
	LD50 Oral	Rat - Male,	>2000 mg/kg	-
		Female		

**Conclusion/Summary** 

: Very low toxicity to humans or animals. Effects are not sufficient for classification as hazardous.

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Diammonium phosphate	Skin	Rabbit	0	72 hours	-
	Eyes	Rabbit	0	72 hours	-
Monoammonium phosphate	Skin	Rabbit	0	-	-
	Eyes	Rabbit	0	-	-
Ammonium sulphate	Skin	Rabbit	0	20 hours	24 hours
·	Eyes	Rabbit	0	-	72 hours

#### **Conclusion/Summary**

Skin : Non-irritating to the skin.

Eyes : Non-irritating to the eyes.

**Respiratory**: No known significant effects or critical hazards.

## **Sensitisation**

Product/ingredient name	Route of exposure	Species	Result
Diammonium phosphate	Skin	Mouse	Not sensitizing
Monoammonium phosphate	Skin	Mouse	Not sensitizing
Ammonium sulphate	Skin	Guinea pig	Not sensitizing

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 9/16

Diammonium Phosphate, Granular 18-46-0

# **SECTION 11: Toxicological information**

**Conclusion/Summary** 

Skin : Non-sensitiser to skin.

Respiratory : Non-sensitiser to lungs.

**Mutagenicity** 

Product/ingredient name	Test	Experiment	Result
Diammonium phosphate	471 Bacterial Reverse Mutation Test	Subject: Bacteria	Negative
Monoammonium phosphate	OECD 471 Bacterial Reverse Mutation Test	Subject: Bacteria	Negative
Ammonium sulphate	OECD 476	Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic	Negative
	OECD 473	Experiment: In vitro Subject: Mammalian-Animal Cell: Germ	Negative

**Conclusion/Summary**: No known significant effects or critical hazards.

**Carcinogenicity** 

Product/ingredient name	Result	Species	Dose	Exposure
Ammonium sulphate	Negative - Oral - TCLo	Rat - Male, Female	1288 mg/kg	2 years; 7 days per week

Conclusion/Summary

: No known significant effects or critical hazards.

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Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
Diammonium phosphate	Negative	Negative	Negative	,	Oral: 1500 mg/ kg	-
Monoammonium phosphate	Negative	Negative	Negative	Rat - Male, Female	Oral: >1500 mg/kg	-
Ammonium sulphate	Negative	Negative	-	Mouse - Male, Female	Oral: 5000 mg/ kg	-

**Conclusion/Summary**: No known significant effects or critical hazards.

**Teratogenicity** 

Product/ingredient name	Result	Species	Dose	Exposure
Monoammonium phosphate	Negative - Oral	Rat - Male, Female	>1500 mg/kg	-
Ammonium sulphate	Negative - Oral	Rat - Male, Female	1500 mg/kg	-

**Conclusion/Summary**: No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on likely routes : Skin contact of exposure : Inhalation

Potential acute health effects

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 10/16

Diammonium Phosphate, Granular 18-46-0

# **SECTION 11: Toxicological information**

**Eye contact**: May cause irritation due to mechanical action.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

Skin contactIngestionNo known significant effects or critical hazards.No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

irritation redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data.

Ingestion : No specific data.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

Potential immediate : See above.

effects

Potential delayed effects : See above.

Long term exposure

Potential immediate : See above.

effects

Potential delayed effects : See below.

### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Diammonium phosphate	Chronic NOAEL Oral	Rat - Male, Female	250 mg/kg	-
Monoammonium phosphate	Chronic NOAEL Oral	Rat - Male, Female	250 mg/kg	-
Ammonium sulphate	Chronic NOAEL Oral	Rat - Male, Female	256 mg/kg	52 weeks; 7 days per week

Conclusion/Summary
 No known significant effects or critical hazards.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Other information : Not available.

# SECTION 12: Ecological information

## 12.1 Toxicity

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 11/16

Diammonium Phosphate, Granular 18-46-0

# SECTION 12: Ecological information

Product/ingredient name	Result	Species	Exposure
Diammonium phosphate	Acute LC50 1700 mg/l Fresh water	Fish - Cirrhinus mrigala/L. Rohita - Fry	96 hours
Monoammonium phosphate	LC50 >85.9 mg/l Fresh water	Fish	96 hours
Ammonium sulphate	Acute LC50 2.6 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Young	48 hours
	Acute LC50 14000 μg/l Fresh water	Daphnia - Daphnia magna - Young	48 hours
	Acute LC50 53 mg/l	Fish - Oncorhynchus mykis	96 hours

Conclusion/Summary

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

#### 12.2 Persistence and degradability

Conclusion/Summary : According to EC criteria: Readily biodegradable

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Diammonium phosphate	-	-	Readily

#### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

**Mobility** 

: Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

P: Not available. B: Not available. T: Not available.

vPvB : Not applicable.

vP: Not available. vB: Not available.

**12.6 Other adverse effects**: No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance.

#### 13.1 Waste treatment methods

#### **Product**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

## European waste catalogue (EWC)

Waste code	Waste designation
06 13 99	wastes not otherwise specified

#### **Packaging**

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 12/16

# **SECTION 13: Disposal considerations**

**Methods of disposal** 

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ICAO
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions

: Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

**Other EU regulations** 

**Europe inventory** : All components are listed or exempted.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 13/16

Diammonium Phosphate, Granular 18-46-0

# **SECTION 15: Regulatory information**

Not listed.

#### **Seveso Directive**

This product is not controlled under the Seveso III Directive.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

## Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### **Stockholm Convention on Persistent Organic Pollutants**

Not listed.

## Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

## **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **International lists**

#### **National inventory**

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Japan : All components are listed or exempted.

Malaysia : Not determined.

New Zealand : All components are listed or exempted.
 Philippines : All components are listed or exempted.
 Republic of Korea : All components are listed or exempted.
 Taiwan : All components are listed or exempted.

Turkey: Not determined.

United States : All components are listed or exempted.

## 15.2 Chemical safety

assessment

: Complete.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/20081

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Key literature references and sources for data

: REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 DECEMBER 2006, with successive adaptations, amendments,

and corrigenda.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 DECEMBER 2008, with successive adaptations, amendments,

and corrigenda.

ECHA, European Chemicals Agency, Classification and Labelling Database DIRECTIVE 2012/18/EU OF THE EUROPEAN PARLIAMENT AND OF THE

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 14/16

## SECTION 16: Other information

COUNCIL OF 4 JULY 2012 on the control of major-accident hazards involving dangerous substances

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), latest revision.

Directive 2008/68/EC of the European Parliament and of the Council of 24 September 2008 on the inland transport of dangerous goods, with successive amendments.

REGULATION (EC) No 2003/2003 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 13 OCTOBER 2003 RELATING TO FERTILISERS, with successive adaptations, amendments, and corrigenda.

American Conference of Governmental Industrial Hygienists, Threshold Limit Values for Chemical Substances, latest edition.

Corrosion Data Survey, Sixth Edition, 1985, National Association of Corrosion Engineers

ERG 2016 Emergency Response Guidebook

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans.

The Fertilizer Institute, Toxicity Testing Results, March 2003

Substance Information Exchange Forum Database

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	Weight of evidence

### Full text of abbreviated H statements

Not applicable.

## Full text of classifications [CLP/GHS]

Not applicable.

Date of issue/ Date of : 3/22/2019

revision

Date of previous issue : 8/2/2018 Version : 3.4

**Notice to reader** 

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Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 15/16

Diammonium Phosphate, Granular 18-46-0

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.4 16/16