

# **SAFETY DATA SHEET**

Iture Ammonium Polyphosphate Solution 10-34-0

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

1.1 Product identifier

Product name : Ammonium Polyphosphate Solution 10-34-0

**EC number** : 269-789-9

**REACH Registration number** 

Registration number	Substance
Exempt Polymer.	Ammonium polyphosphate

**CAS number** : Not applicable **Product code** : 3284-27948

Product description : EC FERTILISER NP Fertiliser Solution 10-34-0

Product type : Liquid.

Other means of : Not available.

identification

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

lder	ntified uses
Fertiliser. Fertiliser Blend Component	
Uses advised against	Reason
Not applicable	Evaluation

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

Mutrien Europe SA Avenue Louise 326/36 1050 Bruxelles Belgium

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

e-mail address of person responsible for this SDS

: productsafety@nutrien.com

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number : 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 : 8/2/2018 Version : 3.5 1/14

# 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) THE FORMER YUGOSLAVIA +38 923 147 635

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 2/14

# 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**: Mutrien 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 : Multi-constituent substance

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

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixtures.

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 : Not applicable.

Hazard statements : Not applicable.

**Precautionary statements** 

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

have product container or label at hand.

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label : Not applicable.

elements

Annex XVII - Restrictions on the manufacture,

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

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 3/14

### **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

: None known.

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

3.1 Substances : Multi-constituent substance

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Ammonium polyphosphate	EC No.: 269-789-9 CAS: 68333-79-9	60	Not classified.	[A]
Water	EC No.: 231-791-2 CAS no.: 7732-18-5	<40	Not classified.	[A]

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. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Inhalation** 

: No special measures are typically indicated. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if irritation develops.

Ingestion

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training.

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

Over-exposure signs/symptoms

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

watering

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 4/14

Ammonium Polyphosphate Solution 10-34-0

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

Inhalation : No specific data.

Skin contact : Inorganic salt solution. Prolonged or repeated exposure may dry the skin, causing

irritation.

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. 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.

# **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.

Unsuitable extinguishing media

: None known.

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

Hazards from the substance or mixture

: Emits acrid smoke and irritating fumes when heated to decomposition.

Hazardous combustion products

: No specific data. Ammonia nitrogen oxides (NO, NO2 etc.) phosphorus 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.

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

### **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. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

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".

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

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 5/14

Ammonium Polyphosphate Solution 10-34-0

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

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Recover the material and use it for its intended purpose.

Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Recover the material and use it for its intended purpose.

Place spilt material in an appropriate container for disposal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 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 contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

# Advice on general occupational hygiene

Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Wash hands after handling compounds and before eating, smoking and using the lavatory and at the end of the day. 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. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### 7.3 Specific end use(s)

**Recommendations**: Not available.

Industrial sector specific

solutions

: Not applicable. Non-hazardous substance.

# SECTION 8: Exposure controls/personal protection

#### 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 : 3.5 6/14

# 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**

No DNELs/DMELs available.

#### **PNECs**

No PNECs available

#### 8.2 Exposure controls

Appropriate engineering controls

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **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. Ensure that eyewash stations and safety showers are close to the workstation location.

**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: chemical splash goggles. Recommended: splash 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**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.

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.

**Respiratory protection** 

: No personal respiratory protective equipment is normally required. Use a properly fitted, air-purifying or air-fed 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.

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 7/14

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

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

**Appearance** 

Physical state : Liquid.

Colour : Green.

Odour : Odourless.

Odour threshold : Not available.

pH : 6,4 Melting point/freezing point : -17°C

Initial boiling point and boiling

range

: Not available.

Flash point : [Product does not sustain combustion.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not applicable
Upper/lower flammability or : Not applicable

explosive limits

Vapour pressure: Not available.Vapour density: Not available.

**Relative density** : 1,38

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

Partition coefficient: n-octanol/ :

water

Not available.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Dynamic (room temperature): 50 mPa·s

Explosive properties : This material is not explosive.

Oxidising properties : No oxidising ingredients present.

9.2 Other information

**Solubility in water** : Soluble in water in any proportion.

**Heat of combustion** : Not applicable

No additional information.

# **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 : Under normal 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 : Incompatible with copper alloys, copper, and zinc.

10.6 Hazardous : Udecomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 8/14

Ammonium Polyphosphate Solution 10-34-0

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Ammonium polyphosphate	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-

**Conclusion/Summary**: Not toxic. No known significant effects or critical hazards.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ammonium polyphosphate	Skin - Non-irritating (EU).	Rabbit	0	-	-
	Eyes - Non-irritating (EU).	Rabbit	0	-	-

#### **Conclusion/Summary**

Skin : Non-irritating to the skin.

Eyes : Non-irritating to the eyes.

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

**Sensitisation** 

**Conclusion/Summary**: Not available.

**Mutagenicity** 

Product/ingredient name	Test	Experiment	Result
Ammonium polyphosphate	-	Subject: Bacteria	Negative

**Conclusion/Summary** 

: No known significant effects or critical hazards.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

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

Potential acute health effects

Eye contact: No known significant effects or critical hazards.Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Ingestion: May be irritating to mouth, throat and stomach.

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

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

watering

Inhalation : No specific data.

**Skin contact**: Inorganic salt solution. Prolonged or repeated exposure may dry the skin, causing

irritation.

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 9/14

Ammonium Polyphosphate Solution 10-34-0

### **SECTION 11: Toxicological information**

**Ingestion** : No specific data.

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

**Short term exposure** 

**Potential immediate** 

: No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

**Long term exposure** 

**Potential immediate** 

effects

: No known significant effects or critical hazards.

**Potential delayed effects**: No known significant effects or critical hazards.

Potential chronic health effects

Not available.

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

Product/ingredient name	Result	Species	Exposure
Ammonium polyphosphate	Acute EC50 813000 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <24 hours	48 hours
	Acute LC50 >500 mg/l Fresh water Acute LC50 70000 ug/L Fresh water	Fish Fish - Oncorhynchus tshawytscha - Juvenile (Fledgling, Hatchling, Weanling) - 90 days	96 hours 96 hours

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### 12.2 Persistence and degradability

Conclusion/Summary : Not persistent.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Ammonium polyphosphate	-	-	Readily

#### 12.3 Bioaccumulative potential

Not available.

**12.4 Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

## 12.5 Results of PBT and vPvB assessment

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 10/14

Ammonium Polyphosphate Solution 10-34-0

# SECTION 12: Ecological information

PBT : Not applicable.

vPvB : Not applicable.

**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 10 99	wastes not otherwise specified

#### **Packaging**

**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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. 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	-	-	-	-

Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 11/14

Ammonium Polyphosphate Solution 10-34-0

### SECTION 14: Transport information

user

14.6 Special precautions for : 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** : This material is listed or exempted.

#### Ozone depleting substances (1005/2009/EU)

Not listed.

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

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** : This material is listed or exempted. Canada : This material is listed or exempted. China : This material is listed or exempted.

**Japan** Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

Date of issue/Date of revision · 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 12/14

Ammonium Polyphosphate Solution 10-34-0

# SECTION 15: Regulatory information

**New Zealand** : This material is listed or exempted. **Philippines** This material is listed or exempted. Republic of Korea This material is listed or exempted.

**Taiwan** : Not determined. **Turkey** Not determined.

**United States** : This material is 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.

1272/2008]

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 corridenda.

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 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

ERG 2016 Emergency Response Guidebook

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans.

The Fertilizer Institute, Toxicity Testing Results, March 2003

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

Justification
Veight of evidence
Ve

#### Full text of abbreviated H statements

Not applicable.

#### Full text of classifications [CLP/GHS]

Not applicable.

Date of issue/Date of revision · 3/22/2019 Date of previous issue : 8/2/2018 Version: 3.5 13/14

Ammonium Polyphosphate Solution 10-34-0

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

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

revision

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Date of issue/Date of revision : 3/22/2019 Date of previous issue : 8/2/2018 Version : 3.5 14/14