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# SAFETY DATA SHEET



NPK 12.12.17+Fe+Zn

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

### 1.1 Product identifier

Product name : NPK BLU  
Product code : X212700  
Product type : Solid

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

Identified uses
Industrial distribution. Industrial USE to formulate chemical product mixtures. Professional formulation of fertiliser products. Professional USE as fertiliser at Farm - loading and spreading. Professional USE as fertiliser in Greenhouse. Professional USE as liquid fertiliser in open field. Professional USE as fertiliser - maintenance of equipment. Consumer USE of fertilisers.

Uses advised against	: Other non-specified industry
Reason	: Due to lack of related experience or data, the supplier cannot approve this use.

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

Blumen Group S.p.a.  
Via Carlo Strinati 7/9 - Loc. Le Mose  
29122 Piacenza (PC) Italy

tel. +39 0523 573211  
fax +39 0523 573298

mail: msds@blumen.it

### 1.4 Emergency telephone number

**National advisory body/Poison Center**

**Name** : Azienda Ospedaliera A. Cardarelli – Napoli (+39) 081.545.3333  
 Azienda Ospedaliera “Careggi” U.O. Tossicologia Medica – Firenze (+39) 055.794.7819  
 Centro Nazionale di Informazione Tossicologica – Pavia (+39) 0382.24.444  
 Ospedale Niguarda – Milano (+39) 02.66.1010.29  
 Azienda Ospedaliera Papa Giovanni XXIII – Bergamo 800.88.33.00  
 Policlinico “Umberto I – Roma (+39) 06.4997.8000  
 Policlinico “A. Gemelli” – Roma (+39) 06.305.4343  
 Azienda Ospedaliera Università di Foggia– Foggia 800.183.459  
 Ospedale Pediatrico Bambino Gesù – Roma (+39) 06.6859.3726  
 Centro Antiveleni Veneto – Verona 800.011.858

**Supplier**

**Emergency telephone number** : +39 02 75416333 (24h)  
 (with hours of operation)

## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture.**

**Product definition** : Mixture

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

**Classification** : Eye Irrit. 2, H319

The product is 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** : Warning

**Hazard statements** : H319 Causes serious eye irritation.

**Precautionary statements**

**Prevention** : P280-a Wear eye protection.  
 P264-a Wash hands thoroughly after handling.

**Response** : P305 IF IN EYES:  
 P351 Rinse cautiously with water for several minutes.  
 P338 Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 If eye irritation persists:

P313 Get medical attention.

**EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Applicable, Table 65.

**Special packaging requirements**

**Containers to be fitted with child-resistant fastenings** : Not applicable.  
**Tactile warning of danger** : Not applicable.

**2.3 Other hazards**

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.  
**Additional information** : Product forms slippery surface when combined with water.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
potassium nitrate	REACH #: 01-2119488224-35 EC : 231-818-8 CAS : 7757-79-1	>= 20 - <= 25	Ox. Sol. 3, H272	-	[1]
ammonium chloride	REACH #: 01-2119489385-24 EC : 235-186-4 CAS : 12125-02-9 Index: 017-014-00-8	>= 15 - <= 20	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE [Oral] = 1.410 mg/kg	[1]
amines, C16-18-alkyl	REACH #: 01-2119473799-15 EC : 292-550-5 CAS : 90640-32-7 Index: 612-285-00-4	>= 0,01 - < 0,025	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) (oral) Asp. Tox. 1, H304 Aquatic Acute 1, H400	STOT RE 2, H373: >= 10 % M [Acute] = 10 M [Chronic] = 10	[1]

Aquatic Chronic 1, H410

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a physical, health or environmental hazard

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Rinse with plenty of running water. Check for and remove any contact lenses. If irritation persists, get medical attention.
- Inhalation** : If inhaled, remove to fresh air. 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.
- Skin contact** : Wash with soap and water. Get medical attention if irritation develops.
- 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.
- 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: pain or irritation, watering, redness
- Inhalation** : No specific data.
- 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.
- Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use flooding quantities of water for extinction.
- Unsuitable extinguishing media** : Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.

### **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, phosphorus oxides, halogenated compounds, metal oxide/oxides, ammonia, Avoid breathing dusts, vapors or fumes from burning materials., In case of inhalation of decomposition products in a fire, symptoms may be delayed.

### **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.

## **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. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- For emergency responders** : If specialized 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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### **6.3 Methods and materials for containment and cleaning up**

- Small spill** : Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container.

Dispose of via a licensed waste disposal contractor.

- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.
- 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. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

Not for human or animal consumption.

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- 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. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep away from: organic materials, oil and grease.

### 7.3 Specific end use(s)

- Recommendations** : Not available.

## 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

- Remark** : No exposure limit value known.
- 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
ammonium chloride	DNEL	Long term Dermal	128,9 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	43,97 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	55,2 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	9,4 mg/m <sup>3</sup>	General population [Consumers]	Systemic
	DNEL	Long term Oral	55,2 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Oral	55,2 mg/kg bw/day	General population [Consumers]	Systemic
amines, C16-18-alkyl	DNEL	Long term Inhalation	0,38 mg/m <sup>3</sup>	Workers	Systemic

#### PNECs

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
potassium nitrate	PNEC	Sewage Treatment Plant	18 mg/l	Assessment Factors

ammonium chloride	PNEC	Fresh water	0,25 mg/l	Assessment Factors
	PNEC	Marine water	0,025 mg/l	Assessment Factors
	PNEC	Intermittent release	0,43 mg/l	Assessment Factors
	PNEC	Soil	50,7 mg/kg dwt	Assessment Factors
amines, C16-18-alkyl	PNEC	Fresh water	0,26 µg/l	Assessment Factors
	PNEC	Marine water	0,026 µg/l	Assessment Factors
	PNEC	Sewage Treatment Plant	550 µg/l	Assessment Factors
	PNEC	Fresh water sediment	3,76 mg/kg dwt	Assessment Factors
	PNEC	Marine water sediment	0,376 mg/kg dwt	Assessment Factors
	PNEC	Soil	10 mg/kg dwt	Assessment Factors

## 8.2 Exposure controls

### Appropriate engineering controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Individual protection measures

#### Hygiene measures

- : A washing facility or water for eye and skin cleaning purposes should be present. 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. 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.  
**Recommended:** Tightly-fitting goggles, Europe., CEN: EN166,

### 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. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.

#### Body protection



- : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

#### 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** : In case of inadequate ventilation wear respiratory protection.
- 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.
- Personal protective equipment (Pictograms)** :  

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Solid (granules)
- Color** : Blue.,
- Odor** : Odorless.
- Melting point/freezing point** : 140 °C
- Initial boiling point and boiling range** : Not applicable.
- Flammability** : Non-flammable.
- Lower and upper explosion limit** : **Lower:** Not applicable.  
**Upper:** Not applicable.
- Flash point** : Not applicable.
- Auto-ignition temperature** : Not applicable.
- Decomposition temperature** : Not applicable.
- pH** : 5 [Conc. (% w/w): 100 g/l ]
- Viscosity** : **Kinematic:** Not applicable.
- Solubility(ies)** : > 80 g/l  
Partially soluble in the following materials:  
cold water
- Partition coefficient: n-octanol/water** : Not applicable.
- Vapor pressure** : Not applicable.
- Relative vapour density** : Not applicable.
- Bulk density** : 1.100 - 1.200 kg/m<sup>3</sup>

**Explosive properties** : Non-explosive.  
**Oxidizing properties** : Non-oxidizer.  
 UN Manual of Tests and Criteria, Section 39.

#### Particle characteristics

**Median particle size** : 3,0 mm

#### 9.2 Other information

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 hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : Avoid contamination by any source including metals, dust and organic materials.
- 10.5 Incompatible materials** : alkalis combustible materials, reducing materials, organic materials, Acids
- 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product/ingredient name	Method	Species	Result	Exposure
potassium nitrate				
	LD50 Oral	Rat	2.000 mg/kg	Not applicable.
	LD50 Dermal	Rat	> 5.000 mg/kg	Not applicable.
ammonium chloride				
	LD50 Oral	Rat	1.410 mg/kg	Not applicable.
	LD50 Dermal	Rat	> 5.000 mg/kg	Not applicable.
amines, C16-18-alkyl				
	OECD 401 LD50 Oral	Rat	> 5.000 mg/kg	Not applicable.
	OECD 402 LD50 Dermal	Rat	> 5.000 mg/kg	Not applicable.

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

#### Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
NPK 12.12.17+Fe+Zn	8.343,2 mg/kg	N/A	N/A	N/A	N/A
ammonium chloride	1.410 mg/kg	N/A	N/A	N/A	N/A

**Irritation/Corrosion**

Product/ingredient name	Method	Species	Result	Exposure
potassium nitrate				
	OECD 404 Skin	Rabbit	Non-irritating.	
ammonium chloride				
	Eyes	Rabbit	Irritant	

**Conclusion/Summary**

**Skin** : No known significant effects or critical hazards.  
**Eyes** : Causes serious eye irritation.  
**Respiratory** : No known significant effects or critical hazards.

**Sensitization**

Product/ingredient name	Method	Species	Result
amines, C16-18-alkyl			
	OECD 406 Skin	Guinea pig	Not sensitizing
<b>Remarks:</b>		Non-sensitizer.	

**Conclusion/Summary**

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

**Mutagenicity**

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

**Carcinogenicity**

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

**Reproductive toxicity**

Product/ingredient name	Method	Species	Result	Exposure
ammonium chloride				
	Oral	Rat	Fertility effects- Negative Developmental- Negative 1500 mg/kg bw/day	-

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

**Specific target organ toxicity (repeated exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
amines, C16-18-alkyl	Category 2	oral	gastrointestinal tract,

immune system, liver

**Aspiration hazard**

Product/ingredient name	Result
amines, C16-18-alkyl	ASPIRATION HAZARD - Category 1

**Information on the likely routes of exposure** : Not available.

**Potential acute health effects**

**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Ingestion** : Irritating to mouth, throat and stomach.

**Skin contact** : No known significant effects or critical hazards.

**Eye contact** : Causes serious eye irritation.

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

**Inhalation** : No specific data.

**Ingestion** : No specific data.

**Skin contact** : No specific data.

**Eye contact** : Adverse symptoms may include the following: pain or irritation, watering, redness

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure**

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

**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**

Product/ingredient name	Method	Species	Result	Exposure
ammonium chloride	Sub-chronic NOAEL Oral	Rat	1.695 mg/kg	13 weeks Repeated dose; 7 days per week

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

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

**Reproductive toxicity** : No known significant effects or critical hazards.

**Effects on or via lactation** : No known significant effects or critical hazards.

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

## 11.2. Information on other hazards

**11.2.1 Endocrine disrupting properties** : Not available.

**11.2.2 Other information** : Not available.

## **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Method	Species	Result	Exposure
potassium nitrate				
	OECD 203 Acute LC50 Fresh water	Fish	> 100 mg/l	96 h
	Acute EC50 Fresh water	Daphnia	490 mg/l	48 h
	Acute EC50 Marine water	Algae	> 1.700 mg/l	240 h
ammonium chloride				
	OECD 202 Acute EC50 Fresh water	Daphnia	136,6 mg/l	48 h
	Acute EC50 Fresh water	Algae	1.300 mg/l	5 d
amines, C16-18-alkyl				
	OECD 202 Acute EC50 Fresh water	Daphnia	0,011 mg/l	48 h

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

### 12.2 Persistence and degradability

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

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ammonium chloride	-3,2	Not applicable.	low

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

### 12.4 Mobility in soil

**Soil/water partition coefficient (KOC)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Endocrine disrupting properties** : Not available.

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

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimized 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** : Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation
06 10 02*	wastes containing hazardous substances

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Empty the bag by shaking to remove as much as possible of its contents. Empty bags may be disposed of as non-hazardous material or returned for recycling.

**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 spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number or ID number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	Not applicable.	Not applicable.	Not applicable.	Not applicable.

<b>14.3 Transport hazard class(es)</b>	Not applicable.	Not applicable.	Not applicable.	Not applicable.
<b>14.4 Packing group</b>	Not applicable.	Not applicable.	Not applicable.	Not applicable.
<b>14.5. Environmental hazards</b>	No.	No.	No.	No.

**Additional information**

ADR/RID

ADN

IMDG

IATA

: **Danger code** Not applicable.**Remark**

: A NPK fertilizer not liable to self-sustaining exothermic decomposition according to the S.1 trough test as defined in the recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, part III, section 38.

**14.6 Special precautions for user**

: Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments****Proper shipping name** : AMMONIUM NITRATE BASED FERTILIZER**Remarks** : **Solid bulk cargoes**  
Harmful to the marine environment with regard to MARPOL Annex V: No  
Material is hazardous only in bulk according to the IMSBC: No  
IMSBC shipping group: C**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 authorization****Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII** : Applicable, Table 65.**- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles****Other EU regulations**

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

None of the components are listed.

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

None of the components are listed.

**Persistent Organic Pollutants**

None of the components are listed.

**Seveso Directive**

This product is not controlled under the Seveso Directive.

**Other regulations** : This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

**National regulations**

**Biocidal products regulation** : Not applicable.

**Other information** : Regulation (EU) 2019/1009, D.Lgs. 75/2010.

**Notes** : To our knowledge no other country or state specific regulations are applicable.

**15.2 Chemical Safety Assessment** : Complete.

## SECTION 16: Other information

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- DMEL = Derived Minimal Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- SGG = Segregation Group
- PBT = Persistent, Bioaccumulative and Toxic
- vPvB = Very Persistent and Very Bioaccumulative
- bw = Body weight

**Key data sources** :

- EU REACH ECHA/IUCLID5 CSR.
- National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances.
- Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.
- Regulation (EC) No 1272/2008 Annex VI.



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

Classification	Justification
Eye Irrit. 2, H319	Calculation method

**Full text of abbreviated H statements**

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Ox. Sol. 3	OXIDIZING SOLIDS - Category 3
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

**Revision comments** : The safety data sheet has been revised according to Commission Regulation (EU) 2020/878.

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**Prepared by** : Product Stewardship and Compliance (PSC).

|| Indicates information that has changed from previously issued version.

**Notice to reader**

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.



**Annex to the extended Safety Data Sheet (eSDS) -  
Exposure Scenario/Safe Use Information:**

**Identification of the substance or mixture**

**Product definition** : Mixture

**Product name** : NPK 12.12.17+Fe+Zn

**Exposure Scenario/Safe Use Information** : Exposure Scenarios are not attached for corrosive or irritant hazards, relevant information on safe use is included in section 8.

